

Osbert Jianxin Sun

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

4,948
citations

117625

34
h-index

95266

68
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87
all docs

87
docs citations

87
times ranked

6079
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially differentiated changes in regional climate and underlying drivers in southwestern China. <i>Journal of Forestry Research</i> , 2022, 33, 755-765.	3.6	6
2	Contrasting vegetation response to climate change between two monsoon regions in Southwest China: The roles of climate condition and vegetation height. <i>Science of the Total Environment</i> , 2022, 802, 149643.	8.0	18
3	Carbon sequestration of Chinese forests from 2010 to 2060: spatiotemporal dynamics and its regulatory strategies. <i>Science Bulletin</i> , 2022, 67, 836-843.	9.0	60
4	Altitudinal variations of hydraulic traits in Faxon fir (<i>Abies fargesii</i> var. <i>faxoniana</i>): Mechanistic controls and environmental adaptability. <i>Forest Ecosystems</i> , 2022, 9, 100040.	3.1	3
5	Reconciliation of research on forest carbon sequestration and water conservation. <i>Journal of Forestry Research</i> , 2021, 32, 7-14.	3.6	15
6	Long-term litter type treatments alter soil carbon composition but not microbial carbon utilization in a mixed pine-oak forest. <i>Biogeochemistry</i> , 2021, 152, 327-343.	3.5	10
7	Nutrient trade-offs mediated by ectomycorrhizal strategies in plants: Evidence from an <i>Abies</i> species in subalpine forests. <i>Ecology and Evolution</i> , 2021, 11, 5281-5294.	1.9	6
8	Choices of ectomycorrhizal foraging strategy as an important mechanism of environmental adaptation in Faxon fir (<i>Abies fargesii</i> var. <i>faxoniana</i>). <i>Forest Ecology and Management</i> , 2021, 495, 119372.	3.2	7
9	Impacts of landscape patterns on water-related ecosystem services under natural restoration in Liaohe River Reserve, China. <i>Science of the Total Environment</i> , 2021, 792, 148290.	8.0	54
10	Satellite view of vegetation dynamics and drivers over southwestern China. <i>Ecological Indicators</i> , 2021, 130, 108074.	6.3	13
11	Differential changes in precipitation and runoff discharge during 1958–2017 in the headwater region of Yellow River of China. <i>Journal of Chinese Geography</i> , 2020, 30, 1401-1418.	3.9	11
12	Non-monotonic and distinct temperature responses of respiration of soil microbial functional groups. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107902.	8.8	8
13	Assessing the vulnerability of ecosystems to climate change based on climate exposure, vegetation stability and productivity. <i>Forest Ecosystems</i> , 2020, 7, .	3.1	22
14	Spatiotemporal variations in productivity and water use efficiency across a temperate forest landscape of Northeast China. <i>Forest Ecosystems</i> , 2019, 6, .	3.1	33
15	Changes in soil organic carbon contents and fractionations of forests along a climatic gradient in China. <i>Forest Ecosystems</i> , 2019, 6, .	3.1	46
16	Lateral heterogeneity of soil physicochemical properties in riparian zones after agricultural abandonment. <i>Scientific Reports</i> , 2018, 8, 2228.	3.3	8
17	Effects of temperature, soil substrate, and microbial community on carbon mineralization across three climatically contrasting forest sites. <i>Ecology and Evolution</i> , 2018, 8, 879-891.	1.9	37
18	Variations in herbaceous vegetation structures and vegetation–environment relationships from floodplain to terrace along a large semi-humid river. <i>Ecological Research</i> , 2018, 33, 1049-1058.	1.5	5

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19	Testing parameter sensitivities and uncertainty analysis of Biome-BGC model in simulating carbon and water fluxes in broadleaved-Korean pine forests. <i>Chinese Journal of Plant Ecology</i> , 2018, 42, 1131-1144.	0.6	9
20	Application and comparison of remote sensing GPP models with multi-site data in China. <i>Chinese Journal of Plant Ecology</i> , 2017, 41, 337-347.	0.6	3
21	Differential controls on soil carbon density and mineralization among contrasting forest types in a temperate forest ecosystem. <i>Scientific Reports</i> , 2016, 6, 22411.	3.3	11
22	Soil microbial responses to forest floor litter manipulation and nitrogen addition in a mixed-wood forest of northern China. <i>Scientific Reports</i> , 2016, 6, 19536.	3.3	17
23	A meta-analysis of the temporal dynamics of priming soil carbon decomposition by fresh carbon inputs across ecosystems. <i>Soil Biology and Biochemistry</i> , 2016, 101, 96-103.	8.8	96
24	A comparison of decomposition dynamics among green tree leaves, partially decomposed tree leaf litter and their mixture in a warm temperate forest ecosystem. <i>Journal of Forestry Research</i> , 2016, 27, 1037-1045.	3.6	15
25	Assessing current stocks and future sequestration potential of forest biomass carbon in Daqing Mountain Nature Reserve of Inner Mongolia, China. <i>Journal of Forestry Research</i> , 2016, 27, 931-938.	3.6	4
26	Photosynthetic and growth responses of <i>Pinus koraiensis</i> seedlings to canopy openness: Implications for the restoration of mixed-broadleaved Korean pine forests. <i>Environmental and Experimental Botany</i> , 2016, 129, 118-126.	4.2	34
27	Maximum temperature accounts for annual soil CO ₂ efflux in temperate forests of Northern China. <i>Scientific Reports</i> , 2015, 5, 12142.	3.3	17
28	Convergent modelling of past soil organic carbon stocks but divergent projections. <i>Biogeosciences</i> , 2015, 12, 4373-4383.	3.3	41
29	Variations in leaf litter decomposition across contrasting forest stands and controlling factors at local scale. <i>Journal of Plant Ecology</i> , 2015, 8, 261-272.	2.3	31
30	Changes in water use with growth in <i>Ulmus pumila</i> in semiarid sandy land of northern China. <i>Trees - Structure and Function</i> , 2014, 28, 41-52.	1.9	50
31	Relating microbial community structure to functioning in forest soil organic carbon transformation and turnover. <i>Ecology and Evolution</i> , 2014, 4, 633-647.	1.9	135
32	Contrasting responses of net primary productivity to inter-annual variability and changes of climate among three forest types in northern China. <i>Journal of Plant Ecology</i> , 2014, 7, 309-320.	2.3	16
33	Parameter uncertainty and identifiability of a conceptual semi-distributed model to simulate hydrological processes in a small headwater catchment in Northwest China. <i>Ecological Processes</i> , 2014, 3, .	3.9	8
34	Predicting soil respiration using carbon stock in roots, litter and soil organic matter in forests of Loess Plateau in China. <i>Soil Biology and Biochemistry</i> , 2013, 57, 135-143.	8.8	71
35	Forest biomass patterns across northeast China are strongly shaped by forest height. <i>Forest Ecology and Management</i> , 2013, 293, 149-160.	3.2	33
36	Effects of forest patch type and site on herb-layer vegetation in a temperate forest ecosystem. <i>Forest Ecology and Management</i> , 2013, 300, 14-20.	3.2	51

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37	Assessment of Vegetation Establishment on Tailings Dam at an Iron Ore Mining Site of Suburban Beijing, China, 7 Years After Reclamation with Contrasting Site Treatment Methods. <i>Environmental Management</i> , 2013, 52, 748-757.	2.7	20
38	Specificity Responses of Grasshoppers in Temperate Grasslands to Diel Asymmetric Warming. <i>PLoS ONE</i> , 2012, 7, e41764.	2.5	13
39	The Responses of Insects to Global Warming. , 2011, , 201-212.		9
40	Modeling long-term soil carbon dynamics and sequestration potential in semi-arid agro-ecosystems. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1529-1544.	4.8	83
41	Environmental Impacts of the Shelter Forests in Horqin Sandy Land, Northeast China. <i>Journal of Environmental Quality</i> , 2011, 40, 815-824.	2.0	41
42	Application of two remote sensing GPP algorithms at a semiarid grassland site of North China. <i>Journal of Plant Ecology</i> , 2011, 4, 302-312.	2.3	20
43	Can no-tillage stimulate carbon sequestration in agricultural soils? A meta-analysis of paired experiments. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 224-231.	5.3	554
44	Modeling Productivity in Mangrove Forests as Impacted by Effective Soil Water Availability and Its Sensitivity to Climate Change Using Biome-BGC. <i>Ecosystems</i> , 2010, 13, 949-965.	3.4	27
45	Litter decomposition and nutrient release as affected by soil nitrogen availability and litter quality in a semiarid grassland ecosystem. <i>Oecologia</i> , 2010, 162, 771-780.	2.0	98
46	Patch-level based vegetation change and environmental drivers in Tarim River drainage area of West China. <i>Landscape Ecology</i> , 2010, 25, 1447-1455.	4.2	24
47	Soil microbial biomass carbon and nitrogen in forest ecosystems of Northeast China: a comparison between natural secondary forest and larch plantation. <i>Journal of Plant Ecology</i> , 2010, 3, 175-182.	2.3	151
48	A comparison of species composition and stand structure between planted and natural mangrove forests in Shenzhen Bay, South China. <i>Journal of Plant Ecology</i> , 2010, 3, 165-174.	2.3	34
49	Changes in soil microbial biomass and community structure with addition of contrasting types of plant litter in a semiarid grassland ecosystem. <i>Journal of Plant Ecology</i> , 2010, 3, 209-217.	2.3	70
50	Changes in soil P chemistry as affected by conversion of natural secondary forests to larch plantations. <i>Forest Ecology and Management</i> , 2010, 260, 422-428.	3.2	62
51	Soil carbon change and its responses to agricultural practices in Australian agro-ecosystems: A review and synthesis. <i>Geoderma</i> , 2010, 155, 211-223.	5.1	332
52	Litter Decomposition in Semiarid Grassland of Inner Mongolia, China. <i>Rangeland Ecology and Management</i> , 2009, 62, 305-313.	2.3	15
53	Dynamics of soil respiration in sparse <i>Ulmus pumila</i> woodland under semi-arid climate. <i>Ecological Research</i> , 2009, 24, 731-739.	1.5	16
54	Differential responses to warming and increased precipitation among three contrasting grasshopper species. <i>Global Change Biology</i> , 2009, 15, 2539-2548.	9.5	75

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55	Differences in Net Primary Productivity Among Contrasting Habitats in <i>Artemisia ordosica</i> Rangeland of Northern China. <i>Rangeland Ecology and Management</i> , 2009, 62, 345-350.	2.3	6
56	Changes in vegetation and landscape patterns with altered river water-flow in arid West China. <i>Journal of Arid Environments</i> , 2009, 73, 306-313.	2.4	25
57	Variation in small-scale spatial heterogeneity of soil properties and vegetation with different land use in semiarid grassland ecosystem. <i>Plant and Soil</i> , 2008, 310, 103-112.	3.7	46
58	Seasonal Variation and Correlation with Environmental Factors of Photosynthesis and Water Use Efficiency of <i>Juglans regia</i> and <i>Ziziphus jujuba</i> . <i>Journal of Integrative Plant Biology</i> , 2008, 50, 210-220.	8.5	14
59	Grassland ecosystems in China: review of current knowledge and research advancement. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 997-1008.	4.0	489
60	Irrigation and enhanced soil carbon input effects on below-ground carbon cycling in semiarid temperate grasslands. <i>New Phytologist</i> , 2007, 174, 835-846.	7.3	74
61	Nonadditive effects of litter mixtures on decomposition and correlation with initial litter N and P concentrations in grassland plant species of northern China. <i>Biology and Fertility of Soils</i> , 2007, 44, 211-216.	4.3	62
62	Predicting the spatial distribution of an invasive plant species (<i>Eupatorium adenophorum</i>) in China. <i>Landscape Ecology</i> , 2007, 22, 1143-1154.	4.2	84
63	Phenological responses of plants to climate change in an urban environment. <i>Ecological Research</i> , 2007, 22, 507-514.	1.5	81
64	Soil carbon and nitrogen stores and storage potential as affected by land-use in an agro-pastoral ecotone of northern China. <i>Biogeochemistry</i> , 2007, 82, 127-138.	3.5	125
65	Differential responses of litter decomposition to increased soil nutrients and water between two contrasting grassland plant species of Inner Mongolia, China. <i>Applied Soil Ecology</i> , 2006, 34, 266-275.	4.3	100
66	Land use affects the relationship between species diversity and productivity at the local scale in a semi-arid steppe ecosystem. <i>Functional Ecology</i> , 2006, 20, 753-762.	3.6	73
67	CARBON FLUXES ACROSS REGIONS: OBSERVATIONAL CONSTRAINTS AT MULTIPLE SCALES. , 2006, , 167-190.		32
68	Interactive effects of elevated CO ₂ and drought stress on leaf water potential and growth in <i>Caragana intermedia</i> . <i>Trees - Structure and Function</i> , 2005, 19, 712-721.	1.9	14
69	Disturbance and climate effects on carbon stocks and fluxes across Western Oregon USA. <i>Global Change Biology</i> , 2004, 10, 1429-1444.	9.5	182
70	Dynamics of carbon stocks in soils and detritus across chronosequences of different forest types in the Pacific Northwest, USA. <i>Global Change Biology</i> , 2004, 10, 1470-1481.	9.5	130
71	Supply-side controls on soil respiration among Oregon forests. <i>Global Change Biology</i> , 2004, 10, 1857-1869.	9.5	55
72	Effects of root and litter exclusion on soil CO ₂ efflux and microbial biomass in wet tropical forests. <i>Soil Biology and Biochemistry</i> , 2004, 36, 2111-2114.	8.8	81

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73	Disturbance and net ecosystem production across three climatically distinct forest landscapes. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	51
74	Effects of land use and fine-scale environmental heterogeneity on net ecosystem production over a temperate coniferous forest landscape. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 657-668.	1.6	29
75	Changes in carbon storage and fluxes in a chronosequence of ponderosa pine. <i>Global Change Biology</i> , 2003, 9, 510-524.	9.5	333
76	Growth, Mg nutrition and photosynthetic activity in <i>Pinus radiata</i> : evidence that NaCl addition counteracts the impact of low Mg supply. <i>Trees - Structure and Function</i> , 2001, 15, 335-340.	1.9	29
77	Physiological impacts of Mg deficiency in <i>Pinus radiata</i> : growth and photosynthesis. <i>New Phytologist</i> , 2000, 146, 47-57.	7.3	122
78	Title is missing!. <i>Plant and Soil</i> , 2000, 225, 213-225.	3.7	8
79	Physiological responses of radiata pine roots to soil strength and soil water deficit. <i>Tree Physiology</i> , 2000, 20, 1205-1207.	3.1	18
80	Comparison of frost tolerance of <i>Nothofagus solandri</i> var. <i>cliffortioides</i> (Hook.f.) Poole and <i>Nothofagus menziesii</i> (Hook.f.) Oerst. <i>New Zealand Journal of Botany</i> , 1996, 34, 273-278.	1.1	14
81	Genotypic Variation in Light and Temperature Response of Photosynthesis in <i>Nothofagus solandri</i> Var. <i>cliffortioides</i> and <i>N. menziesii</i> . <i>Functional Plant Biology</i> , 1996, 23, 421.	2.1	15
82	A test of BIOME-BGC with dendrochronology for forests along the altitudinal gradient of Mt. Changbai in northeast China. <i>Journal of Plant Ecology</i> , 0, , rtw076.	2.3	8