Osbert Jianxin Sun

List of Publications by Year
in descending order

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82 papers	4,948 citations	117625 34 h-index	95266 68 g-index
87 all docs	87 docs citations	87 times ranked	6079 citing authors

#	Article	IF	Citations
1	Can no-tillage stimulate carbon sequestration in agricultural soils? A meta-analysis of paired experiments. Agriculture, Ecosystems and Environment, 2010, 139, 224-231.	5.3	554
2	Grassland ecosystems in China: review of current knowledge and research advancement. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 997-1008.	4.0	489
3	Changes in carbon storage and fluxes in a chronosequence of ponderosa pine. Global Change Biology, 2003, 9, 510-524.	9.5	333
4	Soil carbon change and its responses to agricultural practices in Australian agro-ecosystems: A review and synthesis. Geoderma, 2010, 155, 211-223.	5.1	332
5	Disturbance and climate effects on carbon stocks and fluxes across Western Oregon USA. Global Change Biology, 2004, 10, 1429-1444.	9.5	182
6	Soil microbial biomass carbon and nitrogen in forest ecosystems of Northeast China: a comparison between natural secondary forest and larch plantation. Journal of Plant Ecology, 2010, 3, 175-182.	2.3	151
7	Relating microbial community structure to functioning in forest soil organic carbon transformation and turnover. Ecology and Evolution, 2014, 4, 633-647.	1.9	135
8	Dynamics of carbon stocks in soils and detritus across chronosequences of different forest types in the Pacific Northwest, USA. Global Change Biology, 2004, 10, 1470-1481.	9.5	130
9	Soil carbon and nitrogen stores and storage potential as affected by land-use in an agro-pastoral ecotone of northern China. Biogeochemistry, 2007, 82, 127-138.	3.5	125
10	Physiological impacts of Mg deficiency in Pinus radiata: growth and photosynthesis. New Phytologist, 2000, 146, 47-57.	7.3	122
11	Differential responses of litter decomposition to increased soil nutrients and water between two contrasting grassland plant species of Inner Mongolia, China. Applied Soil Ecology, 2006, 34, 266-275.	4.3	100
12	Litter decomposition and nutrient release as affected by soil nitrogen availability and litter quality in a semiarid grassland ecosystem. Oecologia, 2010, 162, 771-780.	2.0	98
13	A meta-analysis of the temporal dynamics of priming soil carbon decomposition by fresh carbon inputs across ecosystems. Soil Biology and Biochemistry, 2016, 101, 96-103.	8.8	96
14	Predicting the spatial distribution of an invasive plant species (Eupatorium adenophorum) in China. Landscape Ecology, 2007, 22, 1143-1154.	4.2	84
15	Modeling long-term soil carbon dynamics and sequestration potential in semi-arid agro-ecosystems. Agricultural and Forest Meteorology, 2011, 151, 1529-1544.	4.8	83
16	Effects of root and litter exclusion on soil CO2 efflux and microbial biomass in wet tropical forests. Soil Biology and Biochemistry, 2004, 36, 2111-2114.	8.8	81
17	Phenological responses of plants to climate change in an urban environment. Ecological Research, 2007, 22, 507-514.	1.5	81
18	Differential responses to warming and increased precipitation among three contrasting grasshopper species. Global Change Biology, 2009, 15, 2539-2548.	9.5	75

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19	Irrigation and enhanced soil carbon input effects on belowâ€ground carbon cycling in semiarid temperate grasslands. New Phytologist, 2007, 174, 835-846.	7.3	74
20	Land use affects the relationship between species diversity and productivity at the local scale in a semi-arid steppe ecosystem. Functional Ecology, 2006, 20, 753-762.	3.6	73
21	Predicting soil respiration using carbon stock in roots, litter and soil organic matter in forests of Loess Plateau in China. Soil Biology and Biochemistry, 2013, 57, 135-143.	8.8	71
22	Changes in soil microbial biomass and community structure with addition of contrasting types of plant litter in a semiarid grassland ecosystem. Journal of Plant Ecology, 2010, 3, 209-217.	2.3	70
23	Nonadditive effects of litter mixtures on decomposition and correlation with initial litter N and P concentrations in grassland plant species of northern China. Biology and Fertility of Soils, 2007, 44, 211-216.	4.3	62
24	Changes in soil P chemistry as affected by conversion of natural secondary forests to larch plantations. Forest Ecology and Management, 2010, 260, 422-428.	3.2	62
25	Carbon sequestration of Chinese forests from 2010 to 2060: spatiotemporal dynamics and its regulatory strategies. Science Bulletin, 2022, 67, 836-843.	9.0	60
26	Supply-side controls on soil respiration among Oregon forests. Global Change Biology, 2004, 10, 1857-1869.	9.5	55
27	Impacts of landscape patterns on water-related ecosystem services under natural restoration in Liaohe River Reserve, China. Science of the Total Environment, 2021, 792, 148290.	8.0	54
28	Disturbance and net ecosystem production across three climatically distinct forest landscapes. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	51
29	Effects of forest patch type and site on herb-layer vegetation in a temperate forest ecosystem. Forest Ecology and Management, 2013, 300, 14-20.	3.2	51
30	Changes in water use with growth in UlmusÂpumila in semiarid sandy land of northern China. Trees - Structure and Function, 2014, 28, 41-52.	1.9	50
31	Variation in small-scale spatial heterogeneity of soil properties and vegetation with different land use in semiarid grassland ecosystem. Plant and Soil, 2008, 310, 103-112.	3.7	46
32	Changes in soil organic carbon contents and fractionations of forests along a climatic gradient in China. Forest Ecosystems, 2019, 6, .	3.1	46
33	Environmental Impacts of the Shelter Forests in Horqin Sandy Land, Northeast China. Journal of Environmental Quality, 2011, 40, 815-824.	2.0	41
34	Convergent modelling of past soil organic carbon stocks but divergent projections. Biogeosciences, 2015, 12, 4373-4383.	3.3	41
35	Effects of temperature, soil substrate, and microbial community on carbon mineralization across three climatically contrasting forest sites. Ecology and Evolution, 2018, 8, 879-891.	1.9	37
36	A comparison of species composition and stand structure between planted and natural mangrove forests in Shenzhen Bay, South China. Journal of Plant Ecology, 2010, 3, 165-174.	2.3	34

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37	Photosynthetic and growth responses of Pinus koraiensis seedlings to canopy openness: Implications for the restoration of mixed-broadleaved Korean pine forests. Environmental and Experimental Botany, 2016, 129, 118-126.	4.2	34
38	Forest biomass patterns across northeast China are strongly shaped by forest height. Forest Ecology and Management, 2013, 293, 149-160.	3.2	33
39	Spatiotemporal variations in productivity and water use efficiency across a temperate forest landscape of Northeast China. Forest Ecosystems, 2019, 6, .	3.1	33
40	CARBON FLUXES ACROSS REGIONS: OBSERVATIONAL CONSTRAINTS AT MULTIPLE SCALES. , 2006, , 167-190.		32
41	Variations in leaf litter decomposition across contrasting forest stands and controlling factors at local scale. Journal of Plant Ecology, 2015, 8, 261-272.	2.3	31
42	Growth, Mg nutrition and photosynthetic activity in Pinus radiata: evidence that NaCl addition counteracts the impact of low Mg supply. Trees - Structure and Function, 2001, 15, 335-340.	1.9	29
43	Effects of land use and fine-scale environmental heterogeneity on net ecosystem production over a temperate coniferous forest landscape. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 657-668.	1.6	29
44	Modeling Productivity in Mangrove Forests as Impacted by Effective Soil Water Availability and Its Sensitivity to Climate Change Using Biome-BGC. Ecosystems, 2010, 13, 949-965.	3.4	27
45	Changes in vegetation and landscape patterns with altered river water-flow in arid West China. Journal of Arid Environments, 2009, 73, 306-313.	2.4	25
46	Patch-level based vegetation change and environmental drivers in Tarim River drainage area of West China. Landscape Ecology, 2010, 25, 1447-1455.	4.2	24
47	Assessing the vulnerability of ecosystems to climate change based on climate exposure, vegetation stability and productivity. Forest Ecosystems, 2020, 7, .	3.1	22
48	Application of two remote sensing GPP algorithms at a semiarid grassland site of North China. Journal of Plant Ecology, 2011, 4, 302-312.	2.3	20
49	Assessment of Vegetation Establishment on Tailings Dam at an Iron Ore Mining Site of Suburban Beijing, China, 7ÂYears After Reclamation with Contrasting Site Treatment Methods. Environmental Management, 2013, 52, 748-757.	2.7	20
50	Physiological responses of radiata pine roots to soil strength and soil water deficit. Tree Physiology, 2000, 20, 1205-1207.	3.1	18
51	Contrasting vegetation response to climate change between two monsoon regions in Southwest China: The roles of climate condition and vegetation height. Science of the Total Environment, 2022, 802, 149643.	8.0	18
52	Maximum temperature accounts for annual soil CO2 efflux in temperate forests of Northern China. Scientific Reports, 2015, 5, 12142.	3.3	17
53	Soil microbial responses to forest floor litter manipulation and nitrogen addition in a mixed-wood forest of northern China. Scientific Reports, 2016, 6, 19536.	3.3	17
54	Dynamics of soil respiration in sparse Ulmus pumila woodland under semiâ€arid climate. Ecological Research, 2009, 24, 731-739.	1.5	16

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55	Contrasting responses of net primary productivity to inter-annual variability and changes of climate among three forest types in northern China. Journal of Plant Ecology, 2014, 7, 309-320.	2.3	16
56	Litter Decomposition in Semiarid Grassland of Inner Mongolia, China. Rangeland Ecology and Management, 2009, 62, 305-313.	2.3	15
57	A comparison of decomposition dynamics among green tree leaves, partially decomposed tree leaf litter and their mixture in a warm temperate forest ecosystem. Journal of Forestry Research, 2016, 27, 1037-1045.	3.6	15
58	Reconciliation of research on forest carbon sequestration and water conservation. Journal of Forestry Research, 2021, 32, 7-14.	3.6	15
59	Genotypic Variation in Light and Temperature Response of Photosynthesis in Nothofagus solandri Var. cliffortioides and N. menziesii. Functional Plant Biology, 1996, 23, 421.	2.1	15
60	Comparison of frost tolerance ofNothofagus solandrivar.cliffortioides(Hook.f.) Poole andNothofagus menziesii(Hook.f.) Oerst. New Zealand Journal of Botany, 1996, 34, 273-278.	1.1	14
61	Interactive effects of elevated CO2 and drought stress on leaf water potential and growth in Caragana intermedia. Trees - Structure and Function, 2005, 19, 712-721.	1.9	14
62	Seasonal Variation and Correlation with Environmental Factors of Photosynthesis and Water Use Efficiency of Juglans regia and Ziziphus jujuba. Journal of Integrative Plant Biology, 2008, 50, 210-220.	8.5	14
63	Satellite view of vegetation dynamics and drivers over southwestern China. Ecological Indicators, 2021, 130, 108074.	6.3	13
64	Specificity Responses of Grasshoppers in Temperate Grasslands to Diel Asymmetric Warming. PLoS ONE, 2012, 7, e41764.	2.5	13
65	Differential controls on soil carbon density and mineralization among contrasting forest types in a temperate forest ecosystem. Scientific Reports, 2016, 6, 22411.	3.3	11
66	Differential changes in precipitation and runoff discharge during 1958â€“2017 in the headwater region of Yellow River of China. Journal of Chinese Geography, 2020, 30, 1401-1418.	3.9	11
67	Long-term litter type treatments alter soil carbon composition but not microbial carbon utilization in a mixed pine-oak forest. Biogeochemistry, 2021, 152, 327-343.	3.5	10
68	The Responses of Insects to Global Warming. , 2011, , 201-212.		9
69	Testing parameter sensitivities and uncertainty analysis of Biome-BGC model in simulating carbon and water fluxes in broadleaved-Korean pine forests. Chinese Journal of Plant Ecology, 2018, 42, 1131-1144.	0.6	9
70	Title is missing!. Plant and Soil, 2000, 225, 213-225.	3.7	8
71	Parameter uncertainty and identifiability of a conceptual semi-distributed model to simulate hydrological processes in a small headwater catchment in Northwest China. Ecological Processes, 2014, 3, .	3.9	8
72	A test of BIOME-BGC with dendrochronology for forests along the altitudinal gradient of Mt. Changbai in northeast China. Journal of Plant Ecology, 0, , rtw076.	2.3	8

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73	Lateral heterogeneity of soil physicochemical properties in riparian zones after agricultural abandonment. Scientific Reports, 2018, 8, 2228.	3.3	8
74	Non-monotonic and distinct temperature responses of respiration of soil microbial functional groups. Soil Biology and Biochemistry, 2020, 148, 107902.	8.8	8
75	Choices of ectomycorrhizal foraging strategy as an important mechanism of environmental adaptation in Faxon fir (Abies fargesii var. faxoniana). Forest Ecology and Management, 2021, 495, 119372.	3.2	7
76	Differences in Net Primary Productivity Among Contrasting Habitats in Artemisia ordosica Rangeland of Northern China. Rangeland Ecology and Management, 2009, 62, 345-350.	2.3	6
77	Nutrient tradeâ€offs mediated by ectomycorrhizal strategies in plants: Evidence from an Abies species in subalpine forests. Ecology and Evolution, 2021, 11, 5281-5294.	1.9	6
78	Spatially differentiated changes in regional climate and underlying drivers in southwestern China. Journal of Forestry Research, 2022, 33, 755-765.	3.6	6
79	Variations in herbaceous vegetation structures and vegetationâ€“environment relationships from floodplain to terrace along a large semiâ€humid river. Ecological Research, 2018, 33, 1049-1058.	1.5	5
80	Assessing current stocks and future sequestration potential of forest biomass carbon in Daqing Mountain Nature Reserve of Inner Mongolia, China. Journal of Forestry Research, 2016, 27, 931-938.	3.6	4
81	Application and comparison of remote sensing GPP models with multi-site data in China. Chinese Journal of Plant Ecology, 2017, 41, 337-347.	0.6	3
82	Altitudinal variations of hydraulic traits in Faxon fir (Abies fargesii var. faxoniana): Mechanistic controls and environmental adaptability. Forest Ecosystems, 2022, 9, 100040.	3.1	3