Jian-Sheng Ye

List of Publications by Year
in descending order

70 papers	8,486 citations	109321 35 h-index	88630 70 g-index
71 all docs	71 docs citations	71 times ranked	10176 citing authors

#	Article	IF	Citations
1	Global Desertification: Building a Science for Dryland Development. Science, 2007, 316, 847-851.	12.6	2,072
2	Ecological Thresholds: The Key to Successful Environmental Management or an Important Concept with No Practical Application?. Ecosystems, 2006, 9, 1-13.	3.4	829
3	Thermal adaptation of soil microbial respiration to elevated temperature. Ecology Letters, 2008, 11, 1316-1327.	6.4	690
4	Is the change of plant-plant interactions with abiotic stress predictable? A meta-analysis of field results in arid environments. Journal of Ecology, 2005, 93, 748-757.	4.0	623
5	Modifying the â€˜pulseâ€“reserveâ€™ paradigm for deserts of North America: precipitation pulses, soil water, and plant responses. Oecologia, 2004, 141, 194-210.	2.0	593
6	IMPACT OF DROUGHT ON DESERT SHRUBS: EFFECTS OF SEASONALITY AND DEGREE OF RESOURCE ISLAND DEVELOPMENT. Ecological Monographs, 1999, 69, 69-106.	5.4	412
7	Impacts of climate change and human activities on grassland vegetation variation in the Chinese Loess Plateau. Science of the Total Environment, 2019, 660, 236-244.	8.0	236
8	Nonlinearities, Feedbacks and Critical Thresholds within the Earth's Climate System. Climatic Change, 2004, 65, 11-38.	3.6	229
9	Coordination theory of leaf nitrogen distribution in a canopy. Oecologia, 1993, 93, 63-69.	2.0	197
10	Title is missing!. Plant Ecology, 2000, 150, 145-159.	1.6	188
11	The stress-gradient hypothesis does not fit all relationships between plant-plant interactions and abiotic stress: further insights from arid environments. Journal of Ecology, 2006, 94, 17-22.	4.0	172
12	VALIDITY OF EXTRAPOLATING FIELD CO2EXPERIMENTS TO PREDICT CARBON SEQUESTRATION IN NATURAL ECOSYSTEMS. Ecology, 1999, 80, 1568-1583.	3.2	163
13	Benefits and limitations to straw- and plastic-film mulch on maize yield and water use efficiency: A meta-analysis across hydrothermal gradients. European Journal of Agronomy, 2018, 99, 138-147.	4.1	113
14	Allometric relations and growth in Pinus taeda: the effect of elevated CO2, and changing N availability. New Phytologist, 1996, 134, 85-93.	7.3	106
15	The effect of elevated CO 2 and N availability on tissue concentrations and whole plant pools of carbon-based secondary compounds in loblolly pine (Pinus taeda). Oecologia, 1997, 113, 29-36.	2.0	90
16	Effects of elevated CO2 and nitrogen fertilization pretreatments on decomposition on tallgrass prairie leaf litter. Plant and Soil, 1994, 165, 115-127.	3.7	89
17	RECONSTRUCTING PLANT ROOT AREA AND WATER UPTAKE PROFILES. Ecology, 2004, 85, 1967-1978.	3.2	87
18	Evidence for large microbial-mediated losses of soil carbon under anthropogenic warming. Nature Reviews Earth & Environment, 2021, 2, 507-517.	29.7	85

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19	AMOUNT OR PATTERN? GRASSLAND RESPONSES TO THE HETEROGENEITY AND AVAILABILITY OF TWO KEY RESOURCES. Ecology, 2007, 88, 501-511.	3.2	80
20	Responses of dryland soil respiration and soil carbon pool size to abrupt vs. gradual and individual vs. combined changes in soil temperature, precipitation, and atmospheric [CO₂]: a simulation analysis. Global Change Biology, 2009, 15, 2274-2294.	9.5	78
21	Historical shrub-grass transitions in the northern Chihuahuan Desert: modeling the effects of shifting rainfall seasonality and event size over a landscape gradient. Global Change Biology, 2003, 9, 1475-1493.	9.5	73
22	A MODEL OF NITROGEN UPTAKE BYERIOPHORUM VAGINATUMROOTS IN THE FIELD: ECOLOGICAL IMPLICATIONS. Ecological Monographs, 1997, 67, 1-22.	5.4	70
23	A model of arctic tundra vegetation derived from topographic gradients. Landscape Ecology, 1998, 13, 187-201.	4.2	65
24	Modelling whole-plant allocation in relation to carbon and nitrogen supply: Coordination versus optimization: Opinion. Plant and Soil, 1996, 185, 65-74.	3.7	62
25	Nonlinear rootâ€derived carbon sequestration across a gradient of nitrogen and phosphorous deposition in experimental mesocosms. Global Change Biology, 2008, 14, 1113-1124.	9.5	58
26	Seasonal responses of soil respiration to warming and nitrogen addition in a semi-arid alfalfa-pasture of the Loess Plateau, China. Science of the Total Environment, 2017, 590-591, 729-738.	8.0	58
27	Title is missing!. Plant and Soil, 1997, 190, 1-9.	3.7	55
28	Increasing microbial carbon use efficiency with warming predicts soil heterotrophic respiration globally. Global Change Biology, 2019, 25, 3354-3364.	9.5	55
29	Impacts of warming and nitrogen addition on soil autotrophic and heterotrophic respiration in a semi-arid environment. Agricultural and Forest Meteorology, 2018, 248, 449-457.	4.8	54
30	Do morphological changes mediate plant responses to water stress? A steadyâ€state experiment with two C 4 grasses. New Phytologist, 2002, 155, 79-88.	7.3	46
31	Spatial heterogeneity in soil nutrient supply modulates nutrient and biomass responses to multiple global change drivers in model grassland communities. Global Change Biology, 2006, 12, 2431-2441.	9.5	43
32	Ecohydrological feedbacks and linkages associated with land degradation: a case study from Mexico. Hydrological Processes, 2006, 20, 3395-3411.	2.6	41
33	Effects of plant size on photosynthesis and water relations in the desert shrub <i>Prosopis glandulosa</i> (Fabaceae). American Journal of Botany, 1996, 83, 99-105.	1.7	40
34	Soil heterogeneity and community composition jointly influence grassland biomass. Journal of Vegetation Science, 2006, 17, 261-270.	2.2	39
35	Trend and variability of China's summer precipitation during 1955â€“2008. International Journal of Climatology, 2014, 34, 559-566.	3.5	38
36	Under which climate and soil conditions the plant productivityâ€“precipitation relationship is linear or nonlinear?. Science of the Total Environment, 2018, 616-617, 1174-1180.	8.0	32

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37	Title is missing!. Climatic Change, 2001, 51, 541-557.	3.6	31
38	Comparison of Belowground Biomass in C3- and C4-Dominated Mixed Communities in a Chesapeake Bay Brackish Marsh. Plant and Soil, 2006, 280, 305-322.	3.7	31
39	Impacts of increased variability in precipitation and air temperature on net primary productivity of the Tibetan Plateau: a modeling analysis. Climatic Change, 2013, 119, 321-332.	3.6	31
40	Small-scale spatial heterogeneity in the vertical distribution of soil nutrients has limited effects on the growth and development of Prosopis glandulosa seedlings. Plant Ecology, 2006, 183, 65-75.	1.6	29
41	Multifunctionality debt in global drylands linked to past biome and climate. Global Change Biology, 2019, 25, 2152-2161.	9.5	28
42	Growth and allocation of the arctic sedges Eriohorum angustifolium and E. vaginatum: effects of variable soil oxygen and nutrient availability. Oecologia, 1995, 104, 330-339.	2.0	27
43	EFFECTS OF COMPENSATORY GROWTH ON POPULATIONPROCESSES: A SIMULATION STUDY. Ecology, 1997, 78, 2378-2384.	3.2	26
44	Effects of Plant Size on Photosynthesis and Water Relations in the Desert Shrub Prosopis glandulosa (Fabaceae). American Journal of Botany, 1996, 83, 99.	1.7	24
45	Hydrological and ecological responses of ecosystems to extreme precipitation regimes: A test of empirical-based hypotheses with an ecosystem model. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 22, 36-46.	2.7	23
46	Legacy effects of precipitation amount and frequency on the aboveground plant biomass of a semi-arid grassland. Science of the Total Environment, 2020, 705, 135899.	8.0	22
47	Decreased mass specific respiration under experimental warming is robust to the microbial biomass method employed. Ecology Letters, 2009, 12, E15.	6.4	19
48	Contingency in ecosystem but not plant community response to multiple global change factors. New Phytologist, 2012, 196, 462-471.	7.3	18
49	Diurnal patterns of CO2 and H2 O exchange of the Arctic sedges Eriophorum angustifolium and E. vaginatum (Cyperaceae). American Journal of Botany, 1998, 85, 592-599.	1.7	17
50	Individual vs. population plastic responses to elevated CO2, nutrient availability, and heterogeneity: a microcosm experiment with co-occurring species. Plant and Soil, 2007, 296, 53-64.	3.7	17
51	EFFECT OF CARBON DIOXIDE ENRICHMENT ON DEVELOPMENT OF THE FIRST SIX MAINSTEM LEAVES IN SOYBEAN. American Journal of Botany, 1989, 76, 1551-1555.	1.7	16
52	Migration of Rural Residents to Urban Areas Drives Grassland Vegetation Increase in Chinaâ€™s Loess Plateau. Sustainability, 2019, 11, 6764.	3.2	16
53	Impact of Drought on Desert Shrubs: Effects of Seasonality and Degree of Resource Island Development. Ecological Monographs, 1999, 69, 69.	5.4	15
54	Which Temperature and Precipitation Extremes Best Explain the Variation of Warm versus Cold Years and Wet versus Dry Years?. Journal of Climate, 2018, 31, 45-59.	3.2	13

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55	Compensatory Thermal Adaptation of Soil Microbial Respiration Rates in Global Croplands. Global Biogeochemical Cycles, 2020, 34, e2019GB006507.	4.9	13
56	Unaltered soil microbial community composition, but decreased metabolic activity in a semiarid grassland after two years of passive experimental warming. Ecology and Evolution, 2020, 10, 12327-12340.	1.9	12
57	A mechanisticâ€“bioclimatic modeling analysis of the potential impact of climate change on biomes of the Tibetan Plateau. Ecology, 2014, 95, 2109-2120.	3.2	11
58	Changes in evapotranspiration and phenology as consequences of shrub removal in dry forests of central Argentina. Ecohydrology, 2015, 8, 1304-1311.	2.4	10
59	Soil heterogeneity and community composition jointly influence grassland biomass. Journal of Vegetation Science, 2006, 17, 261.	2.2	10
60	A QUANTITATIVE STUDY OF VARIATION IN THE CHENOPODIUM ATROVIRENSâ€DESICCATUMâ€PRATERICOLA COMPLEX. American Journal of Botany, 1980, 67, 1380-1390.	1.7	9
61	Growth, nitrogen uptake, and metabolism in two semiarid shrubs grown at ambient and elevated atmospheric CO₂ concentrations: effects of nitrogen supply and source. American Journal of Botany, 2004, 91, 565-572.	1.7	9
62	Effects of agriculture, climate, and policy on NDVI change in a semi-arid river basin of the Chinese Loess Plateau. Arid Land Research and Management, 2019, 33, 321-338.	1.6	9
63	EFFECTS OF ELEVATED CARBON DIOXIDE ON ESTIMATION OF LEAF AREA AND LEAF DRY WEIGHT OF SOYBEAN. American Journal of Botany, 1988, 75, 1771-1774.	1.7	8
64	Title is missing!. Climatic Change, 2001, 51, 251-257.	3.6	7
65	Effect of Carbon Dioxide Enrichment on Development of the First Six Mainstem Leaves in Soybean. American Journal of Botany, 1989, 76, 1551.	1.7	6
66	Lagged precipitation effect on plant productivity is influenced collectively by climate and edaphic factors in drylands. Science of the Total Environment, 2021, 755, 142506.	8.0	5
67	Effects of Elevated Carbon Dioxide on Estimation of Leaf Area and Leaf Dry Weight of Soybean. American Journal of Botany, 1988, 75, 1771.	1.7	5
68	A Quantitative Study of Variation in the Chenopodium atrovirens-Desiccatum- pratericola Complex. American Journal of Botany, 1980, 67, 1380.	1.7	3
69	Gas exchange and carbon metabolism in two <i>Prosopis</i> species (Fabaceae) from semiarid habitats: effects of elevated CO₂, N supply, and N source. American Journal of Botany, 2006, 93, 716-723.	1.7	2
70	INTEGRATED APPROACHES TO DESERTIFICATION. , 2006, , .		0