Guoan Wang

List of Publications by Year
in descending order

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47 papers	1,191 citations	331670 21 h-index	395702 33 g-index
47 all docs	47 docs citations	47 times ranked	1352 citing authors

#	Article	IF	Citations
1	The carbon isotope composition of C3 herbaceous plants in loess area of northern China. Science in China Series D: Earth Sciences, 2003, 46, 1069-1076.	0.9	109
2	Variations in carbon isotope ratios of plants across a temperature gradient along the 400Âmm isoline of mean annual precipitation in north China and their relevance to paleovegetation reconstruction. Quaternary Science Reviews, 2013, 63, 83-90.	3.0	93
3	Increased Electron-Accepting and Decreased Electron-Donating Capacities of Soil Humic Substances in Response to Increasing Temperature. Environmental Science & Technology, 2017, 51, 3176-3186.	10.0	81
4	Distribution of carbon isotope composition of modern soils on the Qinghai-Tibetan Plateau. Biogeochemistry, 2004, 70, 275-299.	3.5	58
5	Variations in carbon isotope ratios of C3 plants and distribution of C4 plants along an altitudinal transect on the eastern slope of Mount Gongga. Science in China Series D: Earth Sciences, 2009, 52, 1714-1723.	0.9	54
6	Effects of environmental and biotic factors on carbon isotopic fractionation during decomposition of soil organic matter. Scientific Reports, 2015, 5, 11043.	3.3	53
7	Carbon isotope ratios of plants and occurrences of C4 species under different soil moisture regimes in arid region of Northwest China. Physiologia Plantarum, 2005, 125, 74-81.	5.2	42
8	Global calibration of a novel, branched GDGT-based soil pH proxy. Organic Geochemistry, 2015, 89-90, 56-60.	1.8	42
9	Measurements of nitrogen isotope composition of plants and surface soils along the altitudinal transect of the eastern slope of Mount Gongga in southwest China. Rapid Communications in Mass Spectrometry, 2010, 24, 3063-3071.	1.5	39
10	Nitrogen isotope composition characteristics of modern plants and their variations along an altitudinal gradient in Dongling Mountain in Beijing. Science China Earth Sciences, 2010, 53, 128-140.	5.2	38
11	Physico-chemical protection, rather than biochemical composition, governs the responses of soil organic carbon decomposition to nitrogen addition in a temperate agroecosystem. Science of the Total Environment, 2017, 598, 282-288.	8.0	37
12	Decoupling of nutrient element cycles in soil and plants across an altitude gradient. Scientific Reports, 2016, 6, 34875.	3.3	36
13	Response of Plantsâ€™ Water Use Efficiency to Increasing Atmospheric CO₂ Concentration. Environmental Science & Technology, 2012, 46, 8610-8620.	10.0	34
14	Carbon isotope ratios of C4 plants in loess areas of North China. Science in China Series D: Earth Sciences, 2006, 49, 97-102.	0.9	33
15	Altitudinal trends of leaf Î´¹³C follow different patterns across a mountainous terrain in north China characterized by a temperate semiâ€humid climate. Rapid Communications in Mass Spectrometry, 2010, 24, 1557-1564.	1.5	26
16	Altitudinal Variation in Leaf Nitrogen Concentration on the Eastern Slope of Mount Gongga on the Tibetan Plateau, China. PLoS ONE, 2012, 7, e44628.	2.5	26
17	Chemical and carbon isotopic dynamics of grass organic matter during litter decompositions: A litterbag experiment. Organic Geochemistry, 2014, 69, 106-113.	1.8	25
18	Temperature effect on abundance and distribution of leaf wax n-alkanes across a temperature gradient along the 400â€¯mm isohyet in China. Organic Geochemistry, 2018, 120, 31-41.	1.8	25

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19	Discrepant responses of the electron transfer capacity of soil humic substances to irrigations with wastewaters from different sources. Science of the Total Environment, 2018, 610-611, 333-341.	8.0	23
20	Intercropping wheat and maize increases the uptake of phthalic acid esters by plant roots from soils. Journal of Hazardous Materials, 2018, 359, 9-18.	12.4	22
21	Clarifying the response of soil organic carbon storage to increasing temperature through minimizing the precipitation effect. Geoderma, 2020, 374, 114398.	5.1	22
22	Temperature sensitivity of decomposition of soil organic matter fractions increases with their turnover time. Land Degradation and Development, 2020, 31, 632-645.	3.9	21
23	Experimental measurements of leaf carbon isotope discrimination and gas exchange in the progenies of Plantago depressa and Setaria viridis collected from a wide altitudinal range. Physiologia Plantarum, 2008, 134, 64-73.	5.2	20
24	Î´13C difference between plants and soil organic matter along the eastern slope of Mount Gongga. Science Bulletin, 2010, 55, 55-62.	1.7	20
25	The key factor limiting plant growth in cold and humid alpine areas also plays a dominant role in plant carbon isotope discrimination. Frontiers in Plant Science, 2015, 6, 961.	3.6	20
26	Disentangling temperature effects on leaf wax n-alkane traits and carbon isotopic composition from phylogeny and precipitation. Organic Geochemistry, 2018, 126, 13-22.	1.8	18
27	Increased suppression of methane production by humic substances in response to warming in anoxic environments. Journal of Environmental Management, 2018, 206, 602-606.	7.8	17
28	Discrepant responses of methane emissions to additions with different organic compound classes of rice straw in paddy soil. Science of the Total Environment, 2018, 630, 141-145.	8.0	16
29	Temperature patterns of soil carbon: nitrogen: phosphorus stoichiometry along the 400Âmm isohyet in China. Catena, 2021, 203, 105338.	5.0	15
30	Temperature exerts no influence on organic matter <i>Î´</i>¹³C of surface soil along the 400â€¯mm isopleth of mean annual precipitation in China. Biogeosciences, 2016, 13, 5057-5064.	3.3	13
31	Foliar Î´13C Showed No Altitudinal Trend in an Arid Region and Atmospheric Pressure Exerted a Negative Effect on Plant Î´13C. Frontiers in Plant Science, 2017, 8, 1070.	3.6	11
32	Î´13C and water-use efficiency indicated by Î´13C of different plant functional groups on Changbai Mountains, Northeast China. Science Bulletin, 2009, 54, 1759-1764.	9.0	10
33	Responses of soil organic carbon turnover to nitrogen deposition are associated with nitrogen input rates: Derived from soil 14C evidences. Environmental Pollution, 2018, 238, 500-507.	7.5	10
34	Minimizing the effect of precipitation in clarifying the responses of leaf N and P stoichiometry to temperature. Environmental Pollution, 2018, 243, 404-409.	7.5	10
35	Change in the bio-uptake of soil phthalates with increasing mulching years: Underlying mechanism and response to temperature rise. Journal of Cleaner Production, 2021, 287, 125049.	9.3	10
36	Decoupling of soil nitrogen and phosphorus dynamics along a temperature gradient on the Qinghai-Tibetan Plateau. Geoderma, 2021, 396, 115084.	5.1	10

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37	Clarifying the influence of temperature on variances in plant metallic nutrients through minimizing the effect of precipitation. Science of the Total Environment, 2019, 646, 347-356.	8.0	9
38	Effects of arbuscular mycorrhizal fungi on maize nitrogen uptake strategy under different soil water conditions. Plant and Soil, 2021, 464, 441.	3.7	9
39	A long-term investigation of the variation in leaf wax n-alkanes responding to climate on Dongling Mountain, north China. Quaternary International, 2021, 592, 67-79.	1.5	8
40	Dynamics of soil metallic nutrients across a 6000-km temperature transect in China. Science of the Total Environment, 2020, 744, 140888.	8.0	7
41	Evaluating the responses of <i>Î´</i>¹³C in <i>Haloxylon ammodendron</i>, a dominant C₄ species in Asian desert ecosystems, to water and nitrogen addition as well as the availability of its	3.3	6
42	A Negative Relationship between Foliar Carbon Isotope Composition and Mass-Based Nitrogen Concentration on the Eastern Slope of Mount Gongga, China. PLoS ONE, 2016, 11, e0166958.	2.5	5
43	Accounting for the effect of temperature in clarifying the response of foliar nitrogen isotope ratios to atmospheric nitrogen deposition. Science of the Total Environment, 2017, 609, 1295-1302.	8.0	3
44	Molecularâ€weightâ€dependent redox cycling of humic substances of paddy soils over successive anoxic and oxic alternations. Land Degradation and Development, 2019, 30, 1130-1144.	3.9	3
45	Relationships between leaf Î´¹⁵N and leaf metallic nutrients. Rapid Communications in Mass Spectrometry, 2021, 35, e8970.	1.5	2
46	Soil organic carbon turnover recovers faster than plant diversity in the grassland when high nitrogen addition is ceased: Derived from soil 14C evidences. Global Ecology and Conservation, 2020, 24, e01229.	2.1	0
47	Changes in precipitation and atmospheric N deposition affect the correlation between N, P and K but not the coupling of water-element in Haloxylon ammodendron. PLoS ONE, 2021, 16, e0258927.	2.5	0