Guanghui Lin

List of Publications by Year
in descending order

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95	6,005	94433 37	74163 75
papers	citations	h-index	g-index

96	96	96	6983
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessing the Response of Terrestrial Ecosystems to Potential Changes in Precipitation. BioScience, 2003, 53, 941.	4.9	680
2	A mechanistic model for interpretation of hydrogen and oxygen isotope ratios in tree-ring cellulose. Geochimica Et Cosmochimica Acta, 2000, 64, 21-35.	3.9	666
3	Hydrogen sulphide enhances photosynthesis through promoting chloroplast biogenesis, photosynthetic enzyme expression, and thiol redox modification in Spinacia oleracea seedlings. Journal of Experimental Botany, 2011, 62, 4481-4493.	4.8	317
4	Recent progresses in mangrove conservation, restoration and research in China. Journal of Plant Ecology, 2009, 2, 45-54.	2.3	222
5	Partitioning overstory and understory evapotranspiration in a semiarid savanna woodland from the isotopic composition of water vapor. Agricultural and Forest Meteorology, 2003, 119, 53-68.	4.8	214
6	A general predictive model for estimating monthly ecosystem evapotranspiration. Ecohydrology, 2011, 4, 245-255.	2.4	195
7	Dependence of carbon sequestration on the differential responses of ecosystem photosynthesis and respiration to rain pulses in a semiarid steppe. Global Change Biology, 2009, 15, 2450-2461.	9.5	190
8	Carbon Isotopic Fractionation Does Not Occur during Dark Respiration in C3 and C4 Plants. Plant Physiology, 1997, 114, 391-394.	4.8	158
9	Elevated CO 2 and temperature impacts on different components of soil CO 2 efflux in Douglasâ€fir terracosms. Global Change Biology, 1999, 5, 157-168.	9.5	156
10	Differential responses of autoâ€•and heterotrophic soil respiration to water and nitrogen addition in a semiarid temperate steppe. Global Change Biology, 2010, 16, 2345-2357.	9.5	136
11	Hydrogen Isotopic Fractionation by Plant Roots during Water Uptake in Coastal Wetland Plants. , 1993, , 497-510.		130
12	Short-term C4 plant Spartina alterniflora invasions change the soil carbon in C3 plant-dominated tidal wetlands on a growing estuarine Island. Soil Biology and Biochemistry, 2006, 38, 3380-3386.	8.8	130
13	Monosoonal precipitation responses of shrubs in a cold desert community on the Colorado Plateau. Oecologia, 1996, 106, 8-17.	2.0	127
14	Plant growth in elevated CO2 alters mitochondrial number and chloroplast fine structure. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2473-2478.	7.1	113
15	Stable isotope and fatty acid evidence for uptake of organic waste by green-lipped mussels Perna viridis in a polyculture fish farm system. Marine Ecology - Progress Series, 2006, 317, 273-283.	1.9	110
16	Summer rain pulse size and rainwater uptake by three dominant desert plants in a desertified grassland ecosystem in northwestern China. Plant Ecology, 2006, 184, 1-12.	1.6	106
17	Contrasting ecosystem <scp>CO</scp>₂ fluxes of inland and coastal wetlands: a metaâ€analysis of eddy covariance data. Global Change Biology, 2017, 23, 1180-1198.	9.5	103
18	Effects of short-term invasion of Spartina alterniflora and the subsequent restoration of native mangroves on the soil organic carbon, nitrogen and phosphorus stock. Chemosphere, 2017, 184, 774-783.	8.2	97

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19	Water regulated effects of photosynthetic substrate supply on soil respiration in a semiarid steppe. Global Change Biology, 2011, 17, 1990-2001.	9.5	91
20	Mangroves: obligate or facultative halophytes? A review. Trees - Structure and Function, 2011, 25, 953-963.	1.9	85
21	Effects of longâ€term grazing on the morphological and functional traits of Leymus chinensis in the semiarid grassland of Inner Mongolia, China. Ecological Research, 2009, 24, 99-108.	1.5	77
22	Comparative study of water uptake and photosynthetic gas exchange between scrub and fringe red mangroves, Rhizophora mangle L.. Oecologia, 1992, 90, 399-403.	2.0	75
23	Biophysical regulations of carbon fluxes of a steppe and a cultivated cropland in semiarid Inner Mongolia. Agricultural and Forest Meteorology, 2007, 146, 216-229.	4.8	75
24	Cultivation and grazing altered evapotranspiration and dynamics in Inner Mongolia steppes. Agricultural and Forest Meteorology, 2009, 149, 1810-1819.	4.8	73
25	Leaf respiration is differentially affected by leaf vs. stand-level night-time warming. Global Change Biology, 2002, 8, 479-485.	9.5	72
26	Differences in morphology, carbon isotope ratios, and photosynthesis between scrub and fringe mangroves in Florida, USA. Aquatic Botany, 1992, 42, 303-313.	1.6	70
27	Effects of Salinity Fluctuation on Photosynthetic Gas Exchange and Plant Growth of The Red Mangrove (Rhizophora mangleL.). Journal of Experimental Botany, 1993, 44, 9-16.	4.8	69
28	Title is missing!. Plant and Soil, 2001, 229, 259-270.	3.7	66
29	Leaf respiratory CO 2 is 13 Câ€enriched relative to leaf organic components in five species of C 3 plants. New Phytologist, 2004, 163, 499-505.	7.3	62
30	Tracing Changes in Ecosystem Function under Elevated Carbon Dioxide Conditions. BioScience, 2003, 53, 805.	4.9	60
31	Drought effect on isoprene production and consumption in Biosphere 2 tropical rainforest. Global Change Biology, 2006, 12, 456-469.	9.5	60
32	Quantifying leafâ€trait covariation and its controls across climates and biomes. New Phytologist, 2019, 221, 155-168.	7.3	60
33	The effect of elevated atmospheric CO2 and drought on sources and sinks of isoprene in a temperate and tropical rainforest mesocosm. Global Change Biology, 2005, 11, 1234-1246.	9.5	55
34	Carbon pools and fluxes in the China Seas and adjacent oceans. Science China Earth Sciences, 2018, 61, 1535-1563.	5.2	51
35	Effects of grazing on photosynthetic characteristics of major steppe species in the Xilin River Basin, Inner Mongolia, China. Photosynthetica, 2005, 43, 559-565.	1.7	45
36	Analysis of community structure of a microbial consortium capable of degrading benzo(a)pyrene by DGGE. Marine Pollution Bulletin, 2009, 58, 1159-1163.	5.0	44

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37	Increasing water and nitrogen availability enhanced net ecosystem CO2 assimilation of a temperate semiarid steppe. Plant and Soil, 2011, 349, 227-240.	3.7	42
38	Vegetation cover and rain timing co-regulate the responses of soil CO2 efflux to rain increase in an arid desert ecosystem. Soil Biology and Biochemistry, 2012, 49, 114-123.	8.8	40
39	Mangrove diversity enhances plant biomass production and carbon storage in Hainan island, China. Functional Ecology, 2021, 35, 774-786.	3.6	40
40	Variations in life-form composition and foliar carbon isotope discrimination among eight plant communities under different soil moisture conditions in the Xilin River Basin, Inner Mongolia, China. Ecological Research, 2005, 20, 167-176.	1.5	39
41	Seasonal variation in CH4 emission and its 13C-isotopic signature from Spartina alterniflora and Scirpus mariqueter soils in an estuarine wetland. Plant and Soil, 2010, 327, 85-94.	3.7	38
42	A small-patched convolutional neural network for mangrove mapping at species level using high-resolution remote-sensing image. Annals of GIS, 2019, 25, 45-55.	3.1	37
43	Response of Surface Temperature to Afforestation in the Kubuqi Desert, Inner Mongolia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 948-964.	3.3	36
44	Variation in propagule mass and its effect on carbon assimilation and seedling growth of red mangrove (Rhizophora mangle) in Florida, USA. Journal of Tropical Ecology, 1995, 11, 109-119.	1.1	34
45	Changes in Carbon Pool and Stand Structure of a Native Subtropical Mangrove Forest after Inter-Planting with Exotic Species Sonneratia apetala. PLoS ONE, 2014, 9, e91238.	2.5	34
46	Restoration of native mangrove wetlands can reverse diet shifts of benthic macrofauna caused by invasive cordgrass. Journal of Applied Ecology, 2018, 55, 905-916.	4.0	30
47	Methane Emission from Mangrove Wetland Soils Is Marginal but Can Be Stimulated Significantly by Anthropogenic Activities. Forests, 2018, 9, 738.	2.1	30
48	Isotopic carbon composition and related characters of dominant species along an environmental gradient in Inner Mongolia, China. Journal of Arid Environments, 2007, 71, 12-28.	2.4	28
49	Antioxidant Tannins from Stem Bark and Fine Root of Casuarina equisetifolia. Molecules, 2010, 15, 5658-5670.	3.8	28
50	Interannual variation in methane emissions from tropical wetlands triggered by repeated El NiÃ±o Southern Oscillation. Global Change Biology, 2017, 23, 4706-4716.	9.5	28
51	Ecological consequences of the Three Gorges Dam: insularization affects foraging behavior and dynamics of rodent populations. Frontiers in Ecology and the Environment, 2010, 8, 13-19.	4.0	27
52	An experimental and modeling study of responses in ecosystems carbon exchanges to increasing CO2 concentrations using a tropical rainforest mesocosm. Functional Plant Biology, 1998, 25, 547.	2.1	27
53	Nutrient conservation strategies of a mangrove species Rhizophora stylosa under nutrient limitation. Plant and Soil, 2010, 326, 469-479.	3.7	26
54	Ecosystem carbon exchange in two terrestrial ecosystem mesocosms under changing atmospheric CO 2 concentrations. Oecologia, 1999, 119, 97-108.	2.0	24

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55	The agricultural biome of Biosphere 2:. Ecological Engineering, 1999, 13, 199-234.	3.6	23
56	Effects of sediment burial disturbance on seedling survival and growth of Suaeda salsa in the tidal wetland of the Yellow River estuary. Plant and Soil, 2010, 337, 457-468.	3.7	23
57	Spatial patterns and driving factors of carbon stocks in mangrove forests on Hainan Island, China. Global Ecology and Biogeography, 2022, 31, 1692-1706.	5.8	21
58	Spatio-temporal variation of stable isotopes of river waters, water source identification and water security in the Heishui Valley (China) during the dry-season. Hydrogeology Journal, 2008, 16, 311-319.	2.1	20
59	Contrasting diel hysteresis between soil autotrophic and heterotrophic respiration in a desert ecosystem under different rainfall scenarios. Scientific Reports, 2015, 5, 16779.	3.3	19
60	Relationships between above- and below-ground carbon stocks in mangrove forests facilitate better estimation of total mangrove blue carbon. Carbon Balance and Management, 2021, 16, 8.	3.2	19
61	The Spatial and Temporal Distribution of Dissolved Organic Carbon Exported from Three Chinese Rivers to the China Sea. PLoS ONE, 2016, 11, e0165039.	2.5	17
62	Variations in Î´13C values among major plant community types in the Xilin River Basin, Inner Mongolia, China. Australian Journal of Botany, 2007, 55, 48.	0.6	15
63	Regional disparities in warm season rainfall changes over arid easternâ€“central Asia. Scientific Reports, 2018, 8, 13051.	3.3	14
64	High quality, continuous measurements of CO2 in Biosphere 2 to assess whole mesocosm carbon cycling. Ecological Engineering, 1999, 13, 249-262.	3.6	13
65	Comparisons in water relations of plants between newly formed riparian and non-riparian habitats along the bank of Three Gorges Reservoir, China. Trees - Structure and Function, 2008, 22, 717-728.	1.9	13
66	Climate-driven increase of natural wetland methane emissions offset by human-induced wetland reduction in China over the past three decades. Scientific Reports, 2016, 6, 38020.	3.3	13
67	Leaf anatomical traits determine the <scp>¹⁸</scp>O enrichment of leaf water in coastal halophytes. Plant, Cell and Environment, 2018, 41, 2744-2757.	5.7	12
68	Litter C transformations of invasive Spartina alterniflora affected by litter type and soil source. Biology and Fertility of Soils, 2020, 56, 369-379.	4.3	12
69	Co-Regulations of Spartina alterniflora Invasion and Exogenous Nitrogen Loading on Soil N2O Efflux in Subtropical Mangrove Mesocosms. PLoS ONE, 2016, 11, e0146199.	2.5	12
70	The stable isotope signatures of blackcurrant (Ribes nigrum L.) in main cultivation regions of China: implications for tracing geographic origin. European Food Research and Technology, 2013, 237, 109-116.	3.3	9
71	Impact of Large-Scale Afforestation on Surface Temperature: A Case Study in the Kubuqi Desert, Inner Mongolia Based on the WRF Model. Forests, 2019, 10, 368.	2.1	9
72	Evapotranspiration Characteristics Distinct to Mangrove Ecosystems Are Revealed by Multipleâ€Site Observations and a Modified Twoâ€Source Model. Water Resources Research, 2019, 55, 11250-11273.	4.2	9

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73	Applications of stable isotopes to study plant-animal relationships in terrestrial ecosystems. Science Bulletin, 2004, 49, 2339-2347.	1.7	8
74	Differential Responses of Net Ecosystem Exchange of Carbon Dioxide to Light and Temperature between Spring and Neap Tides in Subtropical Mangrove Forests. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	8
75	Intra-leaf heterogeneities of hydrogen isotope compositions in leaf water and leaf wax of monocots and dicots. Science of the Total Environment, 2021, 770, 145258.	8.0	8
76	Response to the comment of V. J. Terwilliger on â€œa mechanistic model for interpretation of hydrogen and oxygen isotope ratios in tree-ring cellulose,â€•by J. S. Roden, G. Lin, and J. R. Ehleringer (2000) Geochim. Cosmochim. Acta 64:21â€“35.. Geochimica Et Cosmochimica Acta, 2002, 66, 733-734.	3.9	7
77	Increased nitrogen input enhances Kandelia obovata seedling growth in the presence of invasive Spartina alterniflora in subtropical regions of China. Biology Letters, 2017, 13, 20160760.	2.3	7
78	Changes in Water Retention and Carbon Sequestration in the Huangshan UNESCO Global Geopark (China) from 2000 to 2015. Forests, 2020, 11, 1152.	2.1	6
79	Non-freezing cold event stresses can cause significant damage to mangrove seedlings: assessing the role of warming and nitrogen enrichment in a mesocosm study. Environmental Research Communications, 2020, 2, 031003.	2.3	6
80	Study on stable carbon isotope fractionation of rape honey from rape flowers (Brassica napus L.) to its unifloral ripe honey. Food Chemistry, 2022, 386, 132754.	8.2	6
81	Changes of tannin and nutrients during decomposition of branchlets of Casuarina equisetifolia plantation in subtropical coastal areas of China. Plant, Soil and Environment, 2013, 59, 74-79.	2.2	5
82	The relationship between soil CO2 efflux and its carbon isotopic composition under non-steady-state conditions. Agricultural and Forest Meteorology, 2018, 256-257, 492-500.	4.8	5
83	Contributions of Atmospheric Transport and Rainâ€“Vapor Exchange to Near-Surface Water Vapor in the Zhanjiang Mangrove Reserve, Southern China: An Isotopic Perspective. Atmosphere, 2018, 9, 365.	2.3	5
84	Leaf Trait Covariation and Its Controls: A Quantitative Data Analysis Along a Subtropical Elevation Gradient. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006378.	3.0	5
85	Quantifying Leaf Trait Covariations and Their Relationships with Plant Adaptation Strategies along an Aridity Gradient. Biology, 2021, 10, 1066.	2.8	5
86	Changes of photosynthetic capacity of some plant species under very high CO2 concentrations in Biosphere 2. Science Bulletin, 1997, 42, 859-864.	1.7	4
87	The Biosphere 2 canopy access system. Ecological Engineering, 1999, 13, 313-320.	3.6	4
88	Will forest size structure follow the â^'2 power-law distribution under ideal demographic equilibrium state?. Journal of Theoretical Biology, 2018, 452, 17-21.	1.7	4
89	Effects of environmental stresses on the responses of mangrove plants to spent lubricating oil. Marine Pollution Bulletin, 2011, 63, 385-395.	5.0	3
90	Coupled modelling and sampling approaches to assess the impacts of human water management on land-sea carbon transfer. Science of the Total Environment, 2020, 701, 134735.	8.0	3

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91	FluxDataONE: An Integrated Solution for the Management, Visualization, and Analysis of Flux Data for Agricultural and Ecological Studies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4523-4529.	4.9	2
92	Variance in tree growth rates provides a key link for completing the theory of forest size structure formation. Journal of Theoretical Biology, 2021, 529, 110857.	1.7	1
93	APPLICATIONS OF STABLE ISOTOPE TECHNIQUES AND KEELING PLOT APPROACH TO CARBON AND WATER EXCHANGE STUDIES OF TERRESTRIAL ECOSYSTEMS. Chinese Journal of Plant Ecology, 2005, 29, 851-862.	0.6	1
94	COMPARATIVE STUDIES ON WATER USE EFFICIENCY OF RHIZOPHORACEAE PLANTS GROWN IN DIFFERENT ENVIRONMENTS. Chinese Journal of Plant Ecology, 2005, 29, 530-536.	0.6	1
95	Mangrove Species Mapping Using Deep Learning with Fusion of Hyperspectral and High-Resolution Multispectral Images. , 2021, , .		0