

Dexin Guan

List of Publications by Year in descending order

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68
papers

2,310
citations

318942

23
h-index

252626

46
g-index

70
all docs

70
docs citations

70
times ranked

3885
citing authors

#	ARTICLE	IF	CITATIONS
1	Autotrophic respiration modulates the carbon isotope composition of soil respiration in a mixed forest. <i>Science of the Total Environment</i> , 2022, 807, 150834.	3.9	3
2	Estimating the impact of shelterbelt structure on corn yield at a large scale using Google Earth and Sentinel 2 data. <i>Environmental Research Letters</i> , 2022, 17, 044060.	2.2	5
3	Responses of evapotranspiration to droughts across global forests: a systematic assessment. <i>Canadian Journal of Forest Research</i> , 2021, 51, 1-9.	0.8	13
4	Responses of functional traits to seven-year nitrogen addition in two tree species: coordination of hydraulics, gas exchange and carbon reserves. <i>Tree Physiology</i> , 2021, 41, 190-205.	1.4	17
5	The application of EO-1 Hyperion hyperspectral data to estimate the GPP of temperate forest in Changbai Mountain, Northeast China. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	0
6	Seawater exposure causes hydraulic damage in dying Sitka-spruce trees. <i>Plant Physiology</i> , 2021, 187, 873-885.	2.3	10
7	The Effects of Groundwater Depth on the Soil Evaporation in Horqin Sandy Land, China. <i>Chinese Geographical Science</i> , 2021, 31, 727-734.	1.2	7
8	Effects of Soil Nitrogen Addition on Crown CO ₂ Exchange of <i>Fraxinus mandshurica</i> Rupr. Saplings. <i>Forests</i> , 2021, 12, 1170.	0.9	1
9	Nitrogen nutrition addition mitigated drought stress by improving carbon exchange and reserves among two temperate trees. <i>Agricultural and Forest Meteorology</i> , 2021, 311, 108693.	1.9	25
10	A semiempirical model for horizontal distribution of surface wind speed leeward windbreaks. <i>Agroforestry Systems</i> , 2020, 94, 499-516.	0.9	5
11	Modeling Canopy Carbon and Water Fluxes Using a Multilayered Model over a Temperate Meadow in Inner Mongolia. <i>International Journal of Plant Production</i> , 2020, 14, 141-154.	1.0	2
12	Divergences in hydraulic conductance and anatomical traits of stems and leaves in three temperate tree species coping with drought, N addition and their interactions. <i>Tree Physiology</i> , 2020, 40, 230-244.	1.4	17
13	Effects of nitrogen additions on mesophyll and stomatal conductance in Manchurian ash and Mongolian oak. <i>Scientific Reports</i> , 2020, 10, 10038.	1.6	17
14	Environmental Effects on Carbon Isotope Discrimination from Assimilation to Respiration in a Coniferous and Broad-Leaved Mixed Forest of Northeast China. <i>Forests</i> , 2020, 11, 1156.	0.9	13
15	Effects of soil rewatering on mesophyll and stomatal conductance and the associated mechanisms involving leaf anatomy and some physiological activities in Manchurian ash and Mongolian oak in the Changbai Mountains. <i>Plant Physiology and Biochemistry</i> , 2019, 144, 22-34.	2.8	13
16	Performance of Priestley-Taylor model for estimating evaporation with and without snow coverage over a temperate meadow in Inner Mongolia, China. <i>Water and Environment Journal</i> , 2019, 33, 241-251.	1.0	1
17	The effects of land use change on soil infiltration capacity in China: A meta-analysis. <i>Science of the Total Environment</i> , 2018, 626, 1394-1401.	3.9	120
18	Intercomparison of three methods to estimate evapotranspiration over temperate meadow in Inner Mongolia: Penman-Monteith, Makkink and Priestley-Taylor equation. <i>Water and Environment Journal</i> , 2018, 32, 500-507.	1.0	5

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19	Responses of Woody Plant Functional Traits to Nitrogen Addition: A Meta-Analysis of Leaf Economics, Gas Exchange, and Hydraulic Traits. <i>Frontiers in Plant Science</i> , 2018, 9, 683.	1.7	71
20	Characteristics of soil moisture under different vegetation coverage in Horqin Sandy Land, northern China. <i>PLoS ONE</i> , 2018, 13, e0198805.	1.1	31
21	The effects of forest thinning on soil carbon stocks and dynamics: A meta-analysis. <i>Forest Ecology and Management</i> , 2018, 429, 36-43.	1.4	107
22	The sweet side of global change—dynamic responses of non-structural carbohydrates to drought, elevated CO ₂ and nitrogen fertilization in tree species. <i>Tree Physiology</i> , 2018, 38, 1706-1723.	1.4	51
23	The influence of tree species on small scale spatial heterogeneity of soil respiration in a temperate mixed forest. <i>Science of the Total Environment</i> , 2017, 590-591, 242-248.	3.9	26
24	Quantitative Investigations of Water Balances of a Dune-Interdune Landscape during the Growing Season in the Horqin Sandy Land, Northeastern China. <i>Sustainability</i> , 2017, 9, 1058.	1.6	7
25	Empirical Model Development for Ground Snow Sublimation beneath a Temperate Mixed Forest in Changbai Mountain. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, 04016040.	0.8	7
26	Response of terrestrial carbon dynamics to snow cover change: A meta-analysis of experimental manipulation (II). <i>Soil Biology and Biochemistry</i> , 2016, 103, 388-393.	4.2	24
27	Substantial global carbon uptake by cement carbonation. <i>Nature Geoscience</i> , 2016, 9, 880-883.	5.4	355
28	Photosynthate supply drives soil respiration of <i>Fraxinus mandshurica</i> seedlings in northeastern China: evidences from a shading and nitrogen addition experiment. <i>Journal of Forestry Research</i> , 2016, 27, 1271-1276.	1.7	6
29	Response of terrestrial nitrogen dynamics to snow cover change: A meta-analysis of experimental manipulation. <i>Soil Biology and Biochemistry</i> , 2016, 100, 51-58.	4.2	37
30	Evapotranspiration dynamics over a temperate meadow ecosystem in eastern Inner Mongolia, China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	21
31	Comprehensive precipitation evaluation of TRMM 3B42 with dense rain gauge networks in a mid-latitude basin, northeast, China. <i>Theoretical and Applied Climatology</i> , 2016, 126, 659-671.	1.3	36
32	The effects of simulated nitrogen deposition on plant root traits: A meta-analysis. <i>Soil Biology and Biochemistry</i> , 2015, 82, 112-118.	4.2	228
33	Impact of leaf retained water on tree transpiration. <i>Canadian Journal of Forest Research</i> , 2015, 45, 1351-1357.	0.8	2
34	Spatio-Temporal Analysis of the Accuracy of Tropical Multisatellite Precipitation Analysis 3B42 Precipitation Data in Mid-High Latitudes of China. <i>PLoS ONE</i> , 2015, 10, e0120026.	1.1	20
35	An Experimental Comparison of Two Methods on Photosynthesis Driving Soil Respiration: Girdling and Defoliation. <i>PLoS ONE</i> , 2015, 10, e0132649.	1.1	7
36	Day and night respiration of three tree species in a temperate forest of northeastern China. <i>IForest</i> , 2015, 8, 25-32.	0.5	11

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37	Estimating Daytime Ecosystem Respiration to Improve Estimates of Gross Primary Production of a Temperate Forest. PLoS ONE, 2014, 9, e113512.	1.1	8
38	Impacts of climate change and land use change on runoff of forest catchment in northeast China. Hydrological Processes, 2014, 28, 186-196.	1.1	41
39	Carbon dioxide fluxes over a temperate meadow in eastern Inner Mongolia, China. Environmental Earth Sciences, 2014, 72, 4401-4411.	1.3	8
40	Controls of evapotranspiration during the short dry season in a temperate mixed forest in Northeast China. Ecohydrology, 2013, 6, 775-782.	1.1	16
41	CO ₂ emissions from China's power sector at the provincial level: Consumption versus production perspectives. Renewable and Sustainable Energy Reviews, 2013, 19, 164-172.	8.2	118
42	Soil Temperature Triggers the Onset of Photosynthesis in Korean Pine. PLoS ONE, 2013, 8, e65401.	1.1	11
43	Long-Term Eddy Covariance Monitoring of Evapotranspiration and Its Environmental Factors in a Temperate Mixed Forest in Northeast China. Journal of Hydrologic Engineering - ASCE, 2012, 17, 965-974.	0.8	8
44	Statistical Tests of Random Self-similar Networks Using Digital Elevation Models. Mathematical Geosciences, 2012, 44, 959-973.	1.4	0
45	Evolution of atmospheric carbon dioxide concentration at different temporal scales recorded in a tall forest. Atmospheric Environment, 2012, 61, 9-14.	1.9	22
46	The relationship between sap flow of intercropped young poplar trees (<i>Populus euramericana cv.</i>) and soil moisture. Hydrological Processes, 2012, 26, 2925-2937.	1.1	17
47	Influences of snow event on energy balance over temperate meadow in dormant season based on eddy covariance measurements. Journal of Hydrology, 2011, 399, 100-107.	2.3	11
48	Comparison of eddy covariance and chamber-based methods for measuring CO ₂ flux in a temperate mixed forest. Tree Physiology, 2010, 30, 149-163.	1.4	60
49	Modeling canopy CO ₂ and H ₂ O exchange of a temperate mixed forest. Journal of Geophysical Research, 2010, 115, .	3.3	5
50	Respiration of downed logs in an old-growth temperate forest in north-eastern China. Scandinavian Journal of Forest Research, 2010, 25, 500-506.	0.5	24
51	Estimation of the gross primary production of an old-growth temperate mixed forest using eddy covariance and remote sensing. International Journal of Remote Sensing, 2009, 30, 463-479.	1.3	22
52	Research advances on the biological effects of elevated ultraviolet-B radiation on terrestrial plants. Journal of Forestry Research, 2009, 20, 383-390.	1.7	12
53	Variation in wind speed and surface shear stress from open floor to porous parallel windbreaks: A wind tunnel study. Journal of Geophysical Research, 2009, 114, .	3.3	13
54	Turbulent exchange of CO ₂ over a broadleaf-Korean pine forest in Changbai Mountain, northeast China. Frontiers of Forestry in China: Selected Publications From Chinese Universities, 2008, 3, 401-406.	0.2	0

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55	Seedling growth variation in response to sand burial in four <i>Artemisia</i> species from different habitats in the semi-arid dune field. <i>Trees - Structure and Function</i> , 2008, 22, 41-47.	0.9	29
56	Comparison of three models to estimate evapotranspiration for a temperate mixed forest. <i>Hydrological Processes</i> , 2008, 22, 3431-3443.	1.1	54
57	Water-use efficiency of forest ecosystems in eastern China and its relations to climatic variables. <i>New Phytologist</i> , 2008, 177, 927-937.	3.5	262
58	Energy budget above a temperate mixed forest in northeastern China. <i>Hydrological Processes</i> , 2007, 21, 2425-2434.	1.1	29
59	Modeling CO ₂ source-sink and flux over broadleaved Korean pine forest in Changbai Mountain using inverse Lagrangian dispersion analysis. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	2
60	Year-round soil and ecosystem respiration in a temperate broad-leaved Korean Pine forest. <i>Forest Ecology and Management</i> , 2006, 223, 35-44.	1.4	41
61	Seasonal variation of carbon exchange of typical forest ecosystems along the eastern forest transect in China. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 47-62.	0.9	26
62	Seasonal and annual variation of CO ₂ flux above a broad-leaved Korean pine mixed forest. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 63-73.	0.9	23
63	Estimate of productivity in ecosystem of the broad-leaved Korean pine mixed forest in Changbai Mountain. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 74-88.	0.9	5
64	Photosynthetic characteristics of dominant tree species and canopy in the broadleaved Korean pine forest of Changbai Mountains. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 89-98.	0.9	10
65	Surface roughness length dynamic over several different surfaces and its effects on modeling fluxes. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 262-272.	0.9	26
66	Estimation of water vapor source/sink distribution and evapotranspiration over broadleaved Korean pine forest in Changbai Mountain using inverse Lagrangian dispersion analysis. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	1
67	A wind-tunnel study of windbreak drag. <i>Agricultural and Forest Meteorology</i> , 2003, 118, 75-84.	1.9	84
68	Impact of Forest Canopy Closure on Snow Processes in the Changbai Mountains, Northeast China. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	1