

Zhenghua Hu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/118129/publications.pdf>

Version: 2024-02-01

58
papers

1,137
citations

430874

18
h-index

434195

31
g-index

61
all docs

61
docs citations

61
times ranked

899
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial variations of methane emission in a large shallow eutrophic lake in subtropical climate. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1597-1614.	3.0	102
2	Eutrophic Lake Taihu as a significant CO ₂ source during 2000–2015. <i>Water Research</i> , 2020, 170, 115331.	11.3	85
3	Assessing recent impacts of climate change on design water requirement of Boro rice season in Bangladesh. <i>Theoretical and Applied Climatology</i> , 2019, 138, 97-113.	2.8	64
4	Spatiotemporal trends in reference evapotranspiration and its driving factors in Bangladesh. <i>Theoretical and Applied Climatology</i> , 2021, 144, 793-808.	2.8	63
5	Spatiotemporal trends in the frequency of daily rainfall in Bangladesh during 1975–2017. <i>Theoretical and Applied Climatology</i> , 2020, 141, 869-887.	2.8	55
6	Coregulation of nitrous oxide emissions by nitrogen and temperature in China's third largest freshwater lake (Lake Taihu). <i>Limnology and Oceanography</i> , 2019, 64, 1070-1086.	3.1	54
7	Environmental investments decreased partial pressure of CO ₂ in a small eutrophic urban lake: Evidence from long-term measurements. <i>Environmental Pollution</i> , 2020, 263, 114433.	7.5	41
8	Surface nitrous oxide concentrations and fluxes from water bodies of the agricultural watershed in Eastern China. <i>Environmental Pollution</i> , 2019, 251, 185-192.	7.5	38
9	Eutrophication and temperature drive large variability in carbon dioxide from China's Lake Taihu. <i>Limnology and Oceanography</i> , 2022, 67, 379-391.	3.1	36
10	A highly agricultural river network in Jurong Reservoir watershed as significant CO ₂ and CH ₄ sources. <i>Science of the Total Environment</i> , 2021, 769, 144558.	8.0	35
11	Study on successions sequence of evergreen broad-leaved forest in Gutian Mountain of Zhejiang, Eastern China: species diversity. <i>Frontiers of Biology in China: Selected Publications From Chinese Universities</i> , 2008, 3, 45-49.	0.2	34
12	Spatiotemporal changes and modulations of extreme climatic indices in monsoon-dominated climate region linkage with large-scale atmospheric oscillation. <i>Atmospheric Research</i> , 2021, 264, 105840.	4.1	34
13	Rain-Fed Rice Yield Fluctuation to Climatic Anomalies in Bangladesh. <i>International Journal of Plant Production</i> , 2021, 15, 183-201.	2.2	31
14	Annual N ₂ O emissions from conventionally grazed typical alpine grass meadows in the eastern Qinghai–Tibetan Plateau. <i>Science of the Total Environment</i> , 2018, 625, 885-899.	8.0	30
15	Interannual variability in soil respiration from terrestrial ecosystems in China and its response to climate change. <i>Science China Earth Sciences</i> , 2012, 55, 2091-2098.	5.2	29
16	Assessment of drought during corn growing season in Northeast China. <i>Theoretical and Applied Climatology</i> , 2018, 133, 1315-1321.	2.8	26
17	Spatiotemporal analysis the precipitation extremes affecting rice yield in Jiangsu province, southeast China. <i>International Journal of Biometeorology</i> , 2017, 61, 1863-1872.	3.0	24
18	Annual methane emissions from degraded alpine wetlands in the eastern Tibetan Plateau. <i>Science of the Total Environment</i> , 2019, 657, 1323-1333.	8.0	21

#	ARTICLE	IF	CITATIONS
19	Climate and Vegetation Drivers of Terrestrial Carbon Fluxes: A Global Data Synthesis. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 679-696.	4.3	20
20	Climate-induced rice yield anomalies linked to large-scale atmospheric circulation in Bangladesh using multi-statistical modeling. <i>Theoretical and Applied Climatology</i> , 2021, 144, 1077-1099.	2.8	19
21	Spatio-temporal analysis of meteorological disasters affecting rice, using multi-indices, in Jiangsu province, Southeast China. <i>Food Security</i> , 2017, 9, 661-672.	5.3	18
22	The process of methanogenesis in paddy fields under different elevated CO ₂ concentrations. <i>Science of the Total Environment</i> , 2021, 773, 145629.	8.0	18
23	Spatiotemporal trends of temperature extremes in Bangladesh under changing climate using multi-statistical techniques. <i>Theoretical and Applied Climatology</i> , 2022, 147, 307-324.	2.8	18
24	Effects of warming and elevated O ₃ concentrations on N ₂ O emission and soil nitrification and denitrification rates in a wheat-soybean rotation cropland. <i>Environmental Pollution</i> , 2020, 257, 113556.	7.5	16
25	Regional changes of climate extremes and its effect on rice yield in Jiangsu province, southeast China. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	15
26	Effects of Elevated CO ₂ Concentration and Nitrogen Application Levels on the Accumulation and Translocation of Non-Structural Carbohydrates in Japonica Rice. <i>Sustainability</i> , 2020, 12, 5386.	3.2	14
27	Spatiotemporal characteristics and risk assessment of agricultural drought disasters during the winter wheat-growing season on the Huang-Huai-Hai Plain, China. <i>Theoretical and Applied Climatology</i> , 2021, 143, 1393-1407.	2.8	13
28	A new estimate of global soil respiration from 1970 to 2008. <i>Science Bulletin</i> , 2013, 58, 4153-4160.	1.7	11
29	Soil Respiration and N ₂ O Flux Response to UV-B Radiation and Straw Incorporation in a Soybean-Winter Wheat Rotation System. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	10
30	Risk assessment of drought disaster in summer maize cultivated areas of the Huang-Huai-Hai plain, eastern China. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 441.	2.7	10
31	Effect of Warming and Elevated O ₃ Concentration on CO ₂ Emissions in a Wheat-Soybean Rotation Cropland. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1755.	2.6	9
32	Effects of cyclic variability in Pacific decadal oscillation on winter wheat production in China. <i>International Journal of Climatology</i> , 2021, 41, 2239-2252.	3.5	9
33	Temporal Dynamics and Drivers of Ecosystem Metabolism in a Large Subtropical Shallow Lake (Lake Tj ETQq1 1 0.784314 rgBT /Overbo	2.6	8
34	Climatology of rainfall erosivity during 1961-2012 in Jiangsu Province, southeast China. <i>Natural Hazards</i> , 2019, 98, 1155-1168.	3.4	8
35	Effects of elevated carbon dioxide on metal transport in soil-crop system: results from a field rice and wheat experiment. <i>Journal of Soils and Sediments</i> , 2019, 19, 3742-3748.	3.0	8
36	Quantifying the effect of temporal variability of agro-meteorological disasters on winter oilseed rape yield: a case study in Jiangsu province, southeast China. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 276.	2.7	8

#	ARTICLE	IF	CITATIONS
37	Appraising the historical and projected spatiotemporal changes in the heat index in Bangladesh. <i>Theoretical and Applied Climatology</i> , 2021, 146, 125-138.	2.8	8
38	Elevated CO ₂ Enhances Dynamic Photosynthesis in Rice and Wheat. <i>Frontiers in Plant Science</i> , 2021, 12, 727374.	3.6	8
39	Methane emissions in japonica rice paddy fields under different elevated CO ₂ concentrations. <i>Nutrient Cycling in Agroecosystems</i> , 2022, 122, 173-189.	2.2	8
40	Spatial Interpolation of Annual Runoff in Ungauged Basins Based on the Improved Information Diffusion Model Using a Genetic Algorithm. <i>Discrete Dynamics in Nature and Society</i> , 2017, 2017, 1-18.	0.9	7
41	Responses of CO ₂ and N ₂ O emissions from soil-plant systems to simulated warming and acid rain in cropland. <i>Journal of Soils and Sediments</i> , 2021, 21, 1109-1126.	3.0	7
42	Relationship between basal soil respiration and the temperature sensitivity of soil respiration and their key controlling factors across terrestrial ecosystems. <i>Journal of Soils and Sediments</i> , 2022, 22, 769-781.	3.0	7
43	Evaluation of gridded precipitation datasets over Madagascar. <i>International Journal of Climatology</i> , 2022, 42, 7028-7046.	3.5	7
44	Enhanced UV-B radiation reduced soil-soybean ecosystem respiration and nitrous oxide emissions. <i>Nutrient Cycling in Agroecosystems</i> , 2010, 87, 71-79.	2.2	6
45	Assessment of CMIP5 Models Based on the Interdecadal Relationship between the PDO and Winter Temperature in China. <i>Atmosphere</i> , 2019, 10, 597.	2.3	6
46	Responses of yield variability of summer maize in Henan province, north China, to large-scale atmospheric circulation anomalies. <i>Theoretical and Applied Climatology</i> , 2021, 143, 1655-1665.	2.8	6
47	Hyperspectral characteristics and inversion model estimation of winter wheat under different elevated CO ₂ concentrations. <i>International Journal of Remote Sensing</i> , 2021, 42, 1035-1053.	2.9	5
48	Structure and optical damage resistance of In:Yb:Er:LiNbO ₃ crystals. <i>Crystal Research and Technology</i> , 2007, 42, 488-492.	1.3	4
49	Precipitation concentration in Jiangsu province, southeast China and its indicating function on the fluctuation of rice yield. <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 1249-1258.	2.0	4
50	Characteristics and influencing factors of carbon fluxes in winter wheat fields under elevated CO ₂ concentration. <i>Environmental Pollution</i> , 2022, 307, 119480.	7.5	4
51	Relationships between soil respiration and hyperspectral vegetation indexes and crop characteristics under different warming and straw application modes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40756-40770.	5.3	3
52	Interannual characteristics of rainfall over Madagascar and its relationship with the Indian Ocean sea surface temperature variation. <i>Theoretical and Applied Climatology</i> , 2022, 148, 349-362.	2.8	3
53	Effects of Enhanced UV-B Radiation on N ₂ O Emission in a Soil-Winter Wheat System. <i>Water, Air, and Soil Pollution</i> , 2010, 213, 493-499.	2.4	2
54	Experimental Warming Effects on Soil Respiration, Nitrification, and Denitrification in a Winter Wheat-Soybean Rotation Cropland. <i>Communications in Soil Science and Plant Analysis</i> , 2017, 48, 148-161.	1.4	2

#	ARTICLE	IF	CITATIONS
55	Hyperspectral characteristics and leaf area index monitoring of rice (<i>Oryza sativa</i> L.) under carbon dioxide concentration enrichment. <i>Spectroscopy Letters</i> , 2021, 54, 231-243.	1.0	2
56	Regional Climateâ€Yield Relationship for Winter Oilseed Rape in Jiangsu Province, Southeast China. <i>International Journal of Plant Production</i> , 2019, 13, 93-102.	2.2	2
57	Spatialâ€temporal changes in risk of climate-related yield reduction of winter wheat during 1973â€2014 in Anhui province, southeast China. <i>Theoretical and Applied Climatology</i> , 0, , 1.	2.8	1
58	Analysis on the Causes of the Heaviest Pollution Episode of Nanjing in 2007. , 2008, , .		0