Shutao Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1683316/publications.pdf

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37	650	687363 13	610901 24
papers	citations	h-index	g-index

38	38	38	851
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global annual soil respiration in relation to climate, soil properties and vegetation characteristics: Summary of available data. Agricultural and Forest Meteorology, 2014, 198-199, 335-346.	4.8	106
2	Modeling interannual variability of global soil respiration from climate and soil properties. Agricultural and Forest Meteorology, 2010, 150, 590-605.	4.8	89
3	Model prediction of biomeâ€specific global soil respiration from 1960 to 2012. Earth's Future, 2017, 5, 715-729.	6.3	60
4	Surface nitrous oxide concentrations and fluxes from water bodies of the agricultural watershed in Eastern China. Environmental Pollution, 2019, 251, 185-192.	7.5	38
5	A highly agricultural river network in Jurong Reservoir watershed as significant CO2 and CH4 sources. Science of the Total Environment, 2021, 769, 144558.	8.0	35
6	Interannual variability in soil respiration from terrestrial ecosystems in China and its response to climate change. Science China Earth Sciences, 2012, 55, 2091-2098.	5.2	29
7	CO2 emissions from a forest soil as influenced by amendments of different crop straws: Implications for priming effects. Catena, 2015, 131, 56-63.	5.0	27
8	Simulated acid rain changed the proportion of heterotrophic respiration in soil respiration in a subtropical secondary forest. Applied Soil Ecology, 2015, 86, 148-157.	4.3	26
9	Climatic, soil, and vegetation controls of the temperature sensitivity (Q10) of soil respiration across terrestrial biomes. Global Ecology and Conservation, 2020, 22, e00955.	2.1	23
10	Climate and Vegetation Drivers of Terrestrial Carbon Fluxes: A Global Data Synthesis. Advances in Atmospheric Sciences, 2019, 36, 679-696.	4.3	20
11	The process of methanogenesis in paddy fields under different elevated CO2 concentrations. Science of the Total Environment, 2021, 773, 145629.	8.0	18
12	Effects of warming and elevated O3 concentrations on N2O emission and soil nitrification and denitrification rates in a wheat-soybean rotation cropland. Environmental Pollution, 2020, 257, 113556.	7.5	16
13	Contrasting effects of long-term acid rain simulation on temperature sensitivity of soil respiration and enzymatic activities in a subtropical forest. Journal of Soils and Sediments, 2020, 20, 412-424.	3.0	14
14	Dependence of wheat and rice respiration on tissue nitrogen and the corresponding net carbon fixation efficiency under different rates of nitrogen application. Advances in Atmospheric Sciences, 2007, 24, 55-64.	4.3	12
15	Soil respiration and N2O emission in croplands under different ploughing practices: a case study in south-east China. Soil Research, 2009, 47, 198.	1.1	11
16	A new estimate of global soil respiration from 1970 to 2008. Science Bulletin, 2013, 58, 4153-4160.	1.7	11
17	Soil Respiration and N2O Flux Response to UV-B Radiation and Straw Incorporation in a Soybeanâ€“Winter Wheat Rotation System. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	10
18	The sensitivity of soil microbial respiration declined due to crop straw addition but did not depend on the type of crop straw. Environmental Science and Pollution Research, 2019, 26, 30167-30176.	5.3	10

#	Article	IF	Citations
19	Effect of Warming and Elevated O3 Concentration on CO2 Emissions in a Wheat-Soybean Rotation Cropland. International Journal of Environmental Research and Public Health, 2019, 16, 1755.	2.6	9
20	Climatology of rainfall erosivity during 1961â€“2012 in Jiangsu Province, southeast China. Natural Hazards, 2019, 98, 1155-1168.	3.4	8
21	Temporal and spatial variations in the mean residence time of soil organic carbon and their relationship with climatic, soil and vegetation drivers. Global and Planetary Change, 2020, 195, 103359.	3.5	8
22	Temperature, Moisture, Hyperspectral Vegetation Indexes, and Leaf Traits Regulated Soil Respiration in Different Crop Planting Fields. Journal of Soil Science and Plant Nutrition, 2021, 21, 3203-3220.	3.4	8
23	Methane emissions in japonica rice paddy fields under different elevated CO2 concentrations. Nutrient Cycling in Agroecosystems, 2022, 122, 173-189.	2.2	8
24	Responses of CO2 and N2O emissions from soil-plant systems to simulated warming and acid rain in cropland. Journal of Soils and Sediments, 2021, 21, 1109-1126.	3.0	7
25	Simulated acid rain offset a warming-induced increase in soil respiration but did not impact the temperature sensitivity of soil respiration in a cropland. Applied Soil Ecology, 2021, 164, 103936.	4.3	7
26	Relationship between basal soil respiration and the temperature sensitivity of soil respiration and their key controlling factors across terrestrial ecosystems. Journal of Soils and Sediments, 2022, 22, 769-781.	3.0	7
27	Enhanced UV-B radiation reduced soil-soybean ecosystem respiration and nitrous oxide emissions. Nutrient Cycling in Agroecosystems, 2010, 87, 71-79.	2.2	6
28	Effects of elevated O3 on soil respiration in a winter wheat - soybean rotation cropland. Soil Research, 2012, 50, 500.	1.1	6
29	Hyperspectral characteristics and inversion model estimation of winter wheat under different elevated CO2 concentrations. International Journal of Remote Sensing, 2021, 42, 1035-1053.	2.9	5
30	Effects of 7 Years of Warming and Straw Application on Soil Bacterial, Fungal, and Archaeal Community Compositions and Diversities in a Crop Field. Journal of Soil Science and Plant Nutrition, 2022, 22, 2266-2281.	3.4	5
31	Relationships between soil respiration and hyperspectral vegetation indexes and crop characteristics under different warming and straw application modes. Environmental Science and Pollution Research, 2021, 28, 40756-40770.	5.3	3
32	Effects of Enhanced UV-B Radiation on N2O Emission in a Soil-Winter Wheat System. Water, Air, and Soil Pollution, 2010, 213, 493-499.	2.4	2
33	Experimental Warming Effects on Soil Respiration, Nitrification, and Denitrification in a Winter Wheat-Soybean Rotation Cropland. Communications in Soil Science and Plant Analysis, 2017, 48, 148-161.	1.4	2
34	Hyperspectral characteristics and leaf area index monitoring of rice (Oryza sativa L.) under carbon dioxide concentration enrichment. Spectroscopy Letters, 2021, 54, 231-243.	1.0	2
35	Warming But Not Straw Application Increased Microbial Biomass Carbon and Microbial Biomass Carbon/Nitrogen: Importance of Soil Moisture. Water, Air, and Soil Pollution, 2021, 232, 1.	2.4	1
36	Effects of agricultural management regimes on rotating cropland ecosystem respiration and its components in Southeast China. Agricultural and Forest Meteorology, 2021, 308-309, 108580.	4.8	1

#	Article	IF	Citations
37	Effects of elevated air CO2 concentrations on the carbon and nitrogen contents of rice and winter wheat. Acta Ecologica Sinica, 2023, 43, 288-294.	1.9	0