

Changchun Song

List of Publications by Year in descending order

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93
papers

2,376
citations

201575

27
h-index

243529

44
g-index

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all docs

96
docs citations

96
times ranked

2243
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecosystem atmosphere exchange of CH ₄ and N ₂ O and ecosystem respiration in wetlands in the Sanjiang Plain, Northeastern China. <i>Global Change Biology</i> , 2009, 15, 692-705.	4.2	232
2	Loss and Fragmentation of Marshes in the Sanjiang Plain, Northeast China, 1954–2005. <i>Wetlands</i> , 2011, 31, 945-954.	0.7	127
3	Global pattern and controls of soil microbial metabolic quotient. <i>Ecological Monographs</i> , 2017, 87, 429-441.	2.4	106
4	Quantifying changes in multiple ecosystem services during 1992–2012 in the Sanjiang Plain of China. <i>Science of the Total Environment</i> , 2015, 514, 119-130.	3.9	105
5	Marshland conversion to cropland in northeast China from 1950 to 2000 reduced the greenhouse effect. <i>Global Change Biology</i> , 2010, 16, 680-695.	4.2	101
6	Large methane emission upon spring thaw from natural wetlands in the northern permafrost region. <i>Environmental Research Letters</i> , 2012, 7, 034009.	2.2	61
7	Effect of nitrogen addition on decomposition of <i>Calamagrostis angustifolia</i> litters from freshwater marshes of Northeast China. <i>Ecological Engineering</i> , 2011, 37, 1578-1582.	1.6	56
8	Shifts in soil bacterial and archaeal communities during freeze-thaw cycles in a seasonal frozen marsh, Northeast China. <i>Science of the Total Environment</i> , 2018, 625, 782-791.	3.9	56
9	Effects of warming on N ₂ O fluxes in a boreal peatland of Permafrost region, Northeast China. <i>Science of the Total Environment</i> , 2018, 616-617, 427-434.	3.9	54
10	Short-term responses of soil enzyme activities and carbon mineralization to added nitrogen and litter in a freshwater marsh of Northeast China. <i>European Journal of Soil Biology</i> , 2014, 61, 72-79.	1.4	52
11	Effect of land-use change on CH ₄ and N ₂ O emissions from freshwater marsh in Northeast China. <i>Atmospheric Environment</i> , 2009, 43, 3305-3309.	1.9	50
12	Soil dissolved organic carbon in terrestrial ecosystems: Global budget, spatial distribution and controls. <i>Global Ecology and Biogeography</i> , 2020, 29, 2159-2175.	2.7	47
13	Effects of temperature and root additions on soil carbon and nitrogen mineralization in a predominantly permafrost peatland. <i>Catena</i> , 2018, 165, 381-389.	2.2	46
14	Fluxes of carbon dioxide and methane from swamp and impact factors in Sanjiang Plain, China. <i>Science Bulletin</i> , 2003, 48, 2749-2753.	1.7	45
15	Nitrogen additions affect litter quality and soil biochemical properties in a peatland of Northeast China. <i>Ecological Engineering</i> , 2017, 100, 175-185.	1.6	44
16	Effects of exogenous nitrogen on freshwater marsh plant growth and N ₂ O fluxes in Sanjiang Plain, Northeast China. <i>Atmospheric Environment</i> , 2007, 41, 1080-1090.	1.9	42
17	Plant functional group controls litter decomposition rate and its temperature sensitivity: An incubation experiment on litters from a boreal peatland in northeast China. <i>Science of the Total Environment</i> , 2018, 626, 678-683.	3.9	42
18	Effects of reclamation of natural wetlands to a rice paddy on dissolved carbon dynamics in the Sanjiang Plain, Northeastern China. <i>Ecological Engineering</i> , 2010, 36, 1417-1423.	1.6	40

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19	Carbon exchange in a freshwater marsh in the Sanjiang Plain, northeastern China. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1131-1138.	1.9	40
20	Temporal and spatial variability of methane emissions in a northern temperate marsh. <i>Atmospheric Environment</i> , 2013, 81, 356-363.	1.9	40
21	Influence of nitrogen additions on litter decomposition, nutrient dynamics, and enzymatic activity of two plant species in a peatland in Northeast China. <i>Science of the Total Environment</i> , 2018, 625, 640-646.	3.9	38
22	Effects of long-term nitrogen and phosphorus addition on plant defence compounds in a freshwater wetland. <i>Ecological Indicators</i> , 2018, 94, 1-6.	2.6	36
23	Effects of nitrogen on the ecosystem respiration, CH ₄ and N ₂ O emissions to the atmosphere from the freshwater marshes in northeast China. <i>Environmental Geology</i> , 2007, 52, 529-539.	1.2	35
24	Wetland changes in the Amur River Basin: Differing trends and proximate causes on the Chinese and Russian sides. <i>Journal of Environmental Management</i> , 2021, 280, 111670.	3.8	35
25	Plant zonation patterns reflected by the differences in plant growth, biomass partitioning and root traits along a water level gradient among four common vascular plants in freshwater marshes of the Sanjiang Plain, Northeast China. <i>Ecological Engineering</i> , 2015, 81, 158-164.	1.6	32
26	Short-term Effects of Nitrogen Additions and Increased Temperature on Wetland Soil Respiration, Sanjiang Plain, China. <i>Wetlands</i> , 2013, 33, 727-736.	0.7	31
27	Effect of continued nitrogen enrichment on greenhouse gas emissions from a wetland ecosystem in the Sanjiang Plain, Northeast China: A 5-yr nitrogen addition experiment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 741-751.	1.3	29
28	Effects of freezing-thawing cycle on peatland active organic carbon fractions and enzyme activities in the Da Xing'anling Mountains, Northeast China. <i>Environmental Earth Sciences</i> , 2014, 72, 1853-1860.	1.3	29
29	Litter mass loss and nutrient dynamics of four emergent macrophytes during aerial decomposition in freshwater marshes of the Sanjiang plain, Northeast China. <i>Plant and Soil</i> , 2014, 385, 139-147.	1.8	28
30	Wetland-atmosphere methane exchange in Northeast China: A comparison of permafrost peatland and freshwater wetlands. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 239-249.	1.9	28
31	Rising vegetation activity dominates growing water use efficiency in the Asian permafrost region from 1900 to 2100. <i>Science of the Total Environment</i> , 2020, 736, 139587.	3.9	28
32	Effects of warming on carbon emission and microbial abundances across different soil depths of a peatland in the permafrost region under anaerobic condition. <i>Applied Soil Ecology</i> , 2020, 156, 103712.	2.1	27
33	Short-Term Response of the Soil Microbial Abundances and Enzyme Activities to Experimental Warming in a Boreal Peatland in Northeast China. <i>Sustainability</i> , 2019, 11, 590.	1.6	26
34	Greenhouse Gas Emissions from Southward Transplanted Wetlands During Freezing-Thawing Periods in Northeast China. <i>Wetlands</i> , 2013, 33, 1075-1081.	0.7	24
35	Effects of water table changes on soil CO ₂ , CH ₄ and N ₂ O fluxes during the growing season in freshwater marsh of Northeast China. <i>Environmental Earth Sciences</i> , 2013, 69, 1963-1971.	1.3	23
36	Carbon release from Sphagnum peat during thawing in a montane area in China. <i>Atmospheric Environment</i> , 2013, 75, 77-82.	1.9	23

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37	Growing season methane emissions from a permafrost peatland of northeast China: Observations using open-path eddy covariance method. <i>Atmospheric Environment</i> , 2017, 153, 135-149.	1.9	23
38	Soil carbon and nitrogen across wetland types in discontinuous permafrost zone of the Xiao Xing'an Mountains, northeastern China. <i>Catena</i> , 2013, 101, 31-37.	2.2	21
39	Effects of temperature increase and nitrogen addition on the early litter decomposition in permafrost peatlands. <i>Catena</i> , 2022, 209, 105801.	2.2	21
40	Effects of permafrost thaw on carbon emissions under aerobic and anaerobic environments in the Great Hing'an Mountains, China. <i>Science of the Total Environment</i> , 2014, 487, 604-610.	3.9	20
41	Two ultraviolet radiation datasets that cover China. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 805-815.	1.9	20
42	CO ₂ emissions from soils of different depths of a permafrost peatland, Northeast China: response to simulated freezing-thawing cycles. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 524-531.	1.1	18
43	Effects of nitrogen addition on plant functional traits in freshwater wetland of Sanjiang Plain, Northeast China. <i>Chinese Geographical Science</i> , 2014, 24, 674-681.	1.2	18
44	Phosphorus alleviation of nitrogen-suppressed methane sink in global grasslands. <i>Ecology Letters</i> , 2020, 23, 821-830.	3.0	18
45	Greenhouse gas emissions from different wetlands during the snow-covered season in Northeast China. <i>Atmospheric Environment</i> , 2012, 62, 328-335.	1.9	17
46	Phosphorus availability as a primary constraint on methane emission from a freshwater wetland. <i>Atmospheric Environment</i> , 2012, 59, 202-206.	1.9	17
47	CO ₂ evolution from standing litter of the emergent macrophyte <i>Deyeuxia angustifolia</i> in the Sanjiang Plain, Northeast China. <i>Ecological Engineering</i> , 2014, 63, 45-49.	1.6	17
48	Methane Emission Potential from Freshwater Marsh Soils of Northeast China: Response to Simulated Freezing-Thawing Cycles. <i>Wetlands</i> , 2017, 37, 437-445.	0.7	16
49	Regional Ecological Risk Assessment of Wetlands in the Sanjiang Plain with Respect to Human Disturbance. <i>Sustainability</i> , 2020, 12, 1974.	1.6	15
50	Effects of soil moisture, temperature, and nitrogen fertilization on soil respiration and nitrous oxide emission during maize growth period in northeast China. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2009, 59, 97-106.	0.3	13
51	Comparative Analysis of Two Machine Learning Algorithms in Predicting Site-Level Net Ecosystem Exchange in Major Biomes. <i>Remote Sensing</i> , 2021, 13, 2242.	1.8	13
52	Microbial abundance and enzymatic activity from tussock and shrub soil in permafrost peatland after 6-year warming. <i>Ecological Indicators</i> , 2021, 126, 107589.	2.6	13
53	Effect of nitrogen addition on soil organic carbon in freshwater marsh of Northeast China. <i>Environmental Earth Sciences</i> , 2013, 70, 1653-1659.	1.3	12
54	Influence of wetland reclamation on land-surface energy exchange and evapotranspiration in the Sanjiang plain, Northeast China. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108214.	1.9	12

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55	Labile carbon addition alters soil organic carbon mineralization but not its temperature sensitivity in a freshwater marsh of Northeast China. <i>Applied Soil Ecology</i> , 2021, 160, 103844.	2.1	12
56	Temperature, soil moisture, and microbial controls on CO_2 and CH_4 emissions from a permafrost peatland. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, .	1.3	11
57	A recommended nitrogen application strategy for high crop yield and low environmental pollution at a basin scale. <i>Science of the Total Environment</i> , 2021, 792, 148464.	3.9	11
58	Response of regeneration diversity of <i>Carex lasiocarpa</i> community to different water levels in Sanjiang Plain, China. <i>Chinese Geographical Science</i> , 2010, 20, 37-42.	1.2	10
59	Short-term Effect of Nitrogen Addition on Litter and Soil Properties in <i>Calamagrostis angustifolia</i> Freshwater Marshes of Northeast China. <i>Wetlands</i> , 2013, 33, 505-513.	0.7	10
60	Comparing differences in early-stage decay of macrophyte shoots between in the air and on the sediment surface in a temperate freshwater marsh. <i>Ecological Engineering</i> , 2015, 81, 14-18.	1.6	9
61	Plant defence allocation patterns following an increasing water level gradient in a freshwater wetland. <i>Ecological Indicators</i> , 2019, 107, 105542.	2.6	9
62	Seasonal changes in the contribution of root respiration to total soil respiration in a freshwater marsh in Sanjiang Plain, Northeast China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	8
63	The spatiotemporal distribution of dissolved carbon in the main stems and their tributaries along the lower reaches of Heilongjiang River Basin, Northeast China. <i>Environmental Science and Pollution Research</i> , 2016, 23, 206-219.	2.7	8
64	Hydrological processes and permafrost regulate magnitude, source and chemical characteristics of dissolved organic carbon export in a peatland catchment of northeastern China. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1081-1093.	1.9	8
65	Warming effects on the flux of CH_4 from peatland mesocosms are regulated by plant species composition: Richness and functional types. <i>Science of the Total Environment</i> , 2022, 806, 150831.	3.9	8
66	Dominant species and evenness level co-regulate litter mixture decomposition in a boreal peatland. <i>Plant and Soil</i> , 2022, 474, 423-436.	1.8	8
67	Temperature sensitivity of carbon dioxide production in aggregates and their responses to nitrogen addition in a freshwater marsh, Sanjiang Plain. <i>Soil Science and Plant Nutrition</i> , 2013, 59, 953-960.	0.8	7
68	Annual Carbon Gas Emissions from a Boreal Peatland in Continuous Permafrost Zone, Northeast China. <i>Clean - Soil, Air, Water</i> , 2016, 44, 456-463.	0.7	7
69	Multi-element fingerprinting of soils can reveal conversion of wetlands to croplands. <i>Science of the Total Environment</i> , 2021, 752, 141997.	3.9	7
70	Effect of Nitrogen Addition on Soil Microbial Functional Gene Abundance and Community Diversity in Permafrost Peatland. <i>Microorganisms</i> , 2021, 9, 2498.	1.6	7
71	Nitrogen addition in a freshwater marsh alters the quality of senesced leaves, promoting decay rates and changing nutrient dynamics during the standing-dead phase. <i>Plant and Soil</i> , 2017, 417, 511-521.	1.8	6
72	Export of dissolved nitrogen in catchments underlain by permafrost in northeast China. <i>Science of the Total Environment</i> , 2019, 660, 1210-1218.	3.9	6

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73	Effect of nitrogen and phosphorus on tissue nutrition and biomass of freshwater wetland plant in Sanjiang Plain, Northeast China. <i>Chinese Geographical Science</i> , 2006, 16, 270-275.	1.2	5
74	Effects of long-term land use change on dissolved carbon characteristics in the permafrost streams of northeast China. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2496-2506.	1.7	5
75	Study on Soil Water and Heat Transport Characteristic Responses to Land Use Change in Sanjiang Plain. <i>Sustainability</i> , 2019, 11, 157.	1.6	5
76	Towards an improved utilization of eddy covariance data: Growing season CO ₂ exchange from a permafrost peatland in the Great Hing'an Mountains, Northeast China. <i>Ecological Indicators</i> , 2020, 115, 106427.	2.6	5
77	Estimation of Soil Organic Carbon Storage in Palustrine Wetlands, China. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4646.	1.2	5
78	Response of methane emissions to litter input manipulation in a temperate freshwater marsh, Northeast China. <i>Ecological Indicators</i> , 2020, 115, 106377.	2.6	5
79	Responses of Above-ground Biomass, Plant Diversity, and Dominant Species to Habitat Change in a Freshwater Wetland of Northeast China. <i>Russian Journal of Ecology</i> , 2020, 51, 57-63.	0.3	4
80	Six-year warming decreased amino sugar accumulation in the deep rhizosphere soil of permafrost peatland. <i>Applied Soil Ecology</i> , 2022, 171, 104316.	2.1	4
81	Effects of Water Regimes on Methane Emissions in Peatland and Gley Marsh. <i>Vadose Zone Journal</i> , 2018, 17, 180017.	1.3	3
82	Is Moss Stoichiometry Influenced by Microtopography in a Boreal Peatland of Northeast China?. <i>Chinese Geographical Science</i> , 2018, 28, 1038-1047.	1.2	3
83	Response of Methane and Nitrous Oxide Emissions from Peatlands to Permafrost Thawing in Xiaoxing'an Mountains, Northeast China. <i>Atmosphere</i> , 2021, 12, 222.	1.0	3
84	Investigation into effects of warmer conditions on seasonal runoff and dissolved carbon fluxes in permafrost catchments in northeast China. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 890-902.	1.7	3
85	Effect of different factors dominated by water level environment on wetland carbon emissions. <i>Environmental Science and Pollution Research</i> , 2022, 29, 74150-74162.	2.7	3
86	Effects of plant community diversity on soil microbial functional groups in permafrost peatlands of Greater Khingan Mountains, Northeast China. <i>Wetlands Ecology and Management</i> , 2022, 30, 595-606.	0.7	3
87	Long-term nitrogen addition alters peatland plant community structure and nutrient resorption efficiency. <i>Science of the Total Environment</i> , 2022, 844, 157176.	3.9	3
88	Short-term response of CO ₂ emissions to various leaf litters: a case study from freshwater marshes of Northeast China. <i>Wetlands Ecology and Management</i> , 2017, 25, 119-128.	0.7	1
89	How to Improve Cumulative Methane and Nitrous Oxide Flux Estimations of the Non-steady-State Chamber Method?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	1
90	Modeling methane dynamics in three wetlands in Northeastern China by using the CLM-Microbe model. <i>Ecosystem Health and Sustainability</i> , 2022, 8, .	1.5	1

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91	Genetic types and characteristics of ground ice in Northeast China. Chinese Geographical Science, 1999, 9, 166-171.	1.2	0
92	The Effects of Water Levels and Interspecific Competition on Two Carex Species in a Temperate Wetland of Northeast China. Sustainability, 2020, 12, 10654.	1.6	0
93	Comparing the Impacts of Sediment-Spiked Cadmium on Chironomidae Larvae in Laboratory Bioassays and Field Microcosms and the Implications for Field Validation of Site-Specific Threshold Concentrations. Environmental Toxicology and Chemistry, 2021, 40, 2450-2462.	2.2	0