

Xunhua Zheng

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

185
papers

8,452
citations

50
h-index

84
g-index

190
ext. papers

9,572
ext. citations

6.1
avg, IF

5.81
L-index

#	Paper	IF	Citations
185	A 3-year field measurement of methane and nitrous oxide emissions from rice paddies in China: Effects of water regime, crop residue, and fertilizer application. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	508
184	Nitrous oxide emissions as influenced by amendment of plant residues with different C:N ratios. <i>Soil Biology and Biochemistry</i> , 2004 , 36, 973-981	7.5	418
183	Re-quantifying the emission factors based on field measurements and estimating the direct N ₂ O emission from Chinese croplands. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	217
182	Quantification of N ₂ O fluxes from soil-plant systems may be biased by the applied gas chromatograph methodology. <i>Plant and Soil</i> , 2008 , 311, 211-234	4.2	215
181	Quantifying direct N ₂ O emissions in paddy fields during rice growing season in mainland China: Dependence on water regime. <i>Atmospheric Environment</i> , 2007 , 41, 8030-8042	5.3	214
180	Grazing-induced reduction of natural nitrous oxide release from continental steppe. <i>Nature</i> , 2010 , 464, 881-4	50.4	206
179	Modeling greenhouse gas emissions from rice-based production systems: Sensitivity and upscaling. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	192
178	Impacts of soil moisture on nitrous oxide emission from croplands: a case study on the rice-based agro-ecosystem in Southeast China. <i>Chemosphere</i> , 2000 , 2, 207-224		182
177	Effects of irrigation, fertilization and crop straw management on nitrous oxide and nitric oxide emissions from a wheat-maize rotation field in northern China. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 140, 226-233	5.7	163
176	Nitrous oxide emissions from an intensively cultivated maize-wheat rotation soil in the North China Plain. <i>Science of the Total Environment</i> , 2007 , 373, 501-11	10.2	139
175	CO ₂ emission in an intensively cultivated loam as affected by long-term application of organic manure and nitrogen fertilizer. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 669-679	7.5	134
174	The Asian nitrogen cycle case study. <i>Ambio</i> , 2002 , 31, 79-87	6.5	131
173	Effects of soil moisture and temperature on CO ₂ and CH ₄ soil-atmosphere exchange of various land use/cover types in a semi-arid grassland in Inner Mongolia, China. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 773-787	7.5	126
172	Annual emissions of nitrous oxide and nitric oxide from a wheat-maize cropping system on a silt loam calcareous soil in the North China Plain. <i>Soil Biology and Biochemistry</i> , 2012 , 48, 10-19	7.5	125
171	Effects of environmental factors on N ₂ O emission from and CH ₄ uptake by the typical grasslands in the Inner Mongolia. <i>Chemosphere</i> , 2005 , 58, 205-15	8.4	121
170	N ₂ O, CH ₄ and CO ₂ emissions from seasonal tropical rainforests and a rubber plantation in Southwest China. <i>Plant and Soil</i> , 2006 , 289, 335-353	4.2	121
169	Net primary production of Chinese croplands from 1950 to 1999 2007 , 17, 692-701		118

168	Effects of nitrification inhibitors (DCD and DMPP) on nitrous oxide emission, crop yield and nitrogen uptake in a wheat-maize cropping system. <i>Biogeosciences</i> , 2013 , 10, 2427-2437	4.6	114
167	A 3-year record of N ₂ O and CH ₄ emissions from a sandy loam paddy during rice seasons as affected by different nitrogen application rates. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 152, 1-9	5.7	112
166	Nitrous oxide and nitric oxide emissions from an irrigated cotton field in Northern China. <i>Plant and Soil</i> , 2010 , 332, 123-134	4.2	95
165	Direct emission factor for NO from rice-winter wheat rotation systems in southeast China. <i>Atmospheric Environment</i> , 2005 , 39, 4755-4765	5.3	95
164	Modeling methane emission from rice paddies with various agricultural practices. <i>Journal of Geophysical Research</i> , 2004 , 109,		91
163	Effects of organic matter incorporation on nitrous oxide emissions from rice-wheat rotation ecosystems in China. <i>Plant and Soil</i> , 2010 , 327, 315-330	4.2	89
162	Fluxes of nitrous oxide, methane and carbon dioxide during freezing-thawing cycles in an Inner Mongolian steppe. <i>Plant and Soil</i> , 2008 , 308, 105-117	4.2	89
161	Tillage and crop residue management significantly affects N-trace gas emissions during the non-rice season of a subtropical rice-wheat rotation. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 2131-2140	7.5	88
160	An inventory of N ₂ O emissions from agriculture in China using precipitation-rectified emission factor and background emission. <i>Chemosphere</i> , 2006 , 65, 1915-24	8.4	85
159	Responses of N ₂ O and CH ₄ fluxes to fertilizer nitrogen addition rates in an irrigated wheat-maize cropping system in northern China. <i>Biogeosciences</i> , 2012 , 9, 839-850	4.6	84
158	Annual methane uptake by temperate semiarid steppes as regulated by stocking rates, aboveground plant biomass and topsoil air permeability. <i>Global Change Biology</i> , 2011 , 17, 2803-2816	11.4	83
157	Effects of nitrogen fertilizer on CH ₄ emission from rice fields: multi-site field observations. <i>Plant and Soil</i> , 2010 , 326, 393-401	4.2	82
156	Winter-grazing reduces methane uptake by soils of a typical semi-arid steppe in Inner Mongolia, China. <i>Atmospheric Environment</i> , 2007 , 41, 5948-5958	5.3	77
155	Comparison between static chamber and tunable diode laser-based eddy covariance techniques for measuring nitrous oxide fluxes from a cotton field. <i>Agricultural and Forest Meteorology</i> , 2013 , 171-172, 9-19	5.8	76
154	Carbon dioxide, methane, and nitrous oxide emissions from a rice-wheat rotation as affected by crop residue incorporation and temperature. <i>Advances in Atmospheric Sciences</i> , 2004 , 21, 691-698	2.9	75
153	N balance and cycling of Inner Mongolia typical steppe: a comprehensive case study of grazing effects. <i>Ecological Monographs</i> , 2013 , 83, 195-219	9	74
152	Effect of ammonium-based, non-sulfate fertilizers on CH ₄ emissions from a paddy field with a typical Chinese water management regime. <i>Atmospheric Environment</i> , 2011 , 45, 1095-1101	5.3	74
151	Fluxes of methane and nitrous oxide in water-saving rice production in north China. <i>Nutrient Cycling in Agroecosystems</i> , 2007 , 77, 293-304	3.3	74

150	Nitrogen-regulated effects of free-air CO ₂ enrichment on methane emissions from paddy rice fields. <i>Global Change Biology</i> , 2006 , 12, 1717-1732	11.4	71
149	Nitrous oxide and methane fluxes from a rice-wheat crop rotation under wheat residue incorporation and no-tillage practices. <i>Atmospheric Environment</i> , 2013 , 79, 641-649	5.3	70
148	Atmospheric CO ₂ enrichment facilitates cation release from soil. <i>Ecology Letters</i> , 2010 , 13, 284-91	10	67
147	Soil Respiration under Maize Crops: Effects of Water, Temperature, and Nitrogen Fertilization. <i>Soil Science Society of America Journal</i> , 2007 , 71, 944-951	2.5	66
146	Assessing biogeochemical effects and best management practice for a wheat-maize cropping system using the DNDC model. <i>Biogeosciences</i> , 2014 , 11, 91-107	4.6	65
145	Effects of increasing precipitation and nitrogen deposition on CH ₄ and N ₂ O fluxes and ecosystem respiration in a degraded steppe in Inner Mongolia, China. <i>Geoderma</i> , 2013 , 192, 335-340	6.7	64
144	Estimates of methane emissions from Chinese rice paddies by linking a model to GIS database. <i>Acta Ecologica Sinica</i> , 2006 , 26, 980-987	2.7	60
143	Microbial N Turnover and N-Oxide (N ₂ O/NO/NO ₂) Fluxes in Semi-arid Grassland of Inner Mongolia. <i>Ecosystems</i> , 2007 , 10, 623-634	3.9	59
142	Comparison of manual and automated chambers for field measurements of N ₂ O, CH ₄ , CO ₂ fluxes from cultivated land. <i>Atmospheric Environment</i> , 2009 , 43, 1888-1896	5.3	58
141	Nitrous oxide and methane emissions from a subtropical rice-rapeseed rotation system in China: A 3-year field case study. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 212, 297-309	5.7	55
140	Comparison of manual and automatic methods for measurement of methane emission from rice paddy fields. <i>Advances in Atmospheric Sciences</i> , 1998 , 15, 569-579	2.9	55
139	Effects of elevated CO ₂ and N fertilization on CH ₄ emissions from paddy rice fields. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	51
138	Spatially explicit regionalization of airborne flux measurements using environmental response functions. <i>Biogeosciences</i> , 2013 , 10, 2193-2217	4.6	50
137	Measurement of N ₂ , N ₂ O, NO, and CO ₂ emissions from soil with the gas-flow-soil-core technique. <i>Environmental Science & Technology</i> , 2011 , 45, 6066-72	10.3	50
136	Regulatory effects of soil properties on background N ₂ O emissions from agricultural soils in China. <i>Plant and Soil</i> , 2007 , 295, 53-65	4.2	50
135	Using a modified DNDC model to estimate N ₂ O fluxes from semi-arid grassland in China. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 615-620	7.5	48
134	Urban stress-induced biogenic VOC emissions and SOA-forming potentials in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2901-2920	6.8	47
133	Quantifying net ecosystem carbon dioxide exchange of a short-plant cropland with intermittent chamber measurements. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	47

132	Soil-atmosphere exchange potential of NO and N ₂ O in different land use types of Inner Mongolia as affected by soil temperature, soil moisture, freeze-thaw, and drying-wetting events. <i>Journal of Geophysical Research</i> , 2010 , 115,		45
131	Effects of nitrate concentration on the denitrification potential of a calcic cambisol and its fractions of N ₂ , N ₂ O and NO. <i>Plant and Soil</i> , 2013 , 363, 175-189	4.2	44
130	Nitrous oxide emissions and nitrate leaching from a rain-fed wheat-maize rotation in the Sichuan Basin, China. <i>Plant and Soil</i> , 2013 , 362, 149-159	4.2	44
129	Comparison between eddy covariance and automatic chamber techniques for measuring net ecosystem exchange of carbon dioxide in cotton and wheat fields. <i>Biogeosciences</i> , 2013 , 10, 6865-6877	4.6	44
128	Feedback of grazing on gross rates of N mineralization and inorganic N partitioning in steppe soils of Inner Mongolia. <i>Plant and Soil</i> , 2011 , 340, 127-139	4.2	43
127	Straw return reduces yield-scaled NO plus NO emissions from annual winter wheat-based cropping systems in the North China Plain. <i>Science of the Total Environment</i> , 2017 , 590-591, 174-185	10.2	42
126	Two-year simultaneous records of N ₂ O and NO fluxes from a farmed cropland in the northern China plain with a reduced nitrogen addition rate by one-third. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 178, 39-50	5.7	42
125	Grazing effects on the greenhouse gas balance of a temperate steppe ecosystem. <i>Nutrient Cycling in Agroecosystems</i> , 2012 , 93, 357-371	3.3	42
124	Nitric oxide emissions from conventional vegetable fields in southeastern China. <i>Atmospheric Environment</i> , 2009 , 43, 2762-2769	5.3	42
123	Contribution of plants to N ₂ O emissions in soil-winter wheat ecosystem: pot and field experiments. <i>Plant and Soil</i> , 2005 , 269, 205-211	4.2	41
122	Conversion from rice to vegetable production increases NO emission via increased soil organic matter mineralization. <i>Science of the Total Environment</i> , 2017 , 583, 190-201	10.2	40
121	Organically fertilized tea plantation stimulates N ₂ O emissions and lowers NO fluxes in subtropical China. <i>Biogeosciences</i> , 2015 , 12, 5915-5928	4.6	40
120	Oxygen and substrate availability interactively control the temperature sensitivity of CO ₂ and N ₂ O emission from soil. <i>Biology and Fertility of Soils</i> , 2014 , 50, 775-783	6.1	40
119	Modeling nitrogen loadings from agricultural soils in southwest China with modified DNDC. <i>Journal of Geophysical Research</i> , 2011 , 116,		40
118	Background nitrous oxide emissions from croplands in China in the year 2000. <i>Plant and Soil</i> , 2009 , 320, 307-320	4.2	40
117	Characteristics of multiple-year nitrous oxide emissions from conventional vegetable fields in southeastern China. <i>Journal of Geophysical Research</i> , 2011 , 116,		39
116	A comparison between measured and modeled N ₂ O emissions from Inner Mongolian semi-arid grassland. <i>Plant and Soil</i> , 2003 , 255, 513-528	4.2	39
115	Characteristics of annual nitrous and nitric oxide emissions from major cereal crops in the North China Plain under alternative fertilizer management. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 207, 67-78	5.7	37

114	Importance of point sources on regional nitrous oxide fluxes in semi-arid steppe of Inner Mongolia, China. <i>Plant and Soil</i> , 2007 , 296, 209-226	4.2	37
113	Water-saving ground cover rice production system reduces net greenhouse gas fluxes in an annual rice-based cropping system. <i>Biogeosciences</i> , 2014 , 11, 6221-6236	4.6	35
112	Seasonal characteristics of nitric oxide emission from a typical Chinese rice/wheat rotation during the non-waterlogged period. <i>Global Change Biology</i> , 2003 , 9, 219-227	11.4	35
111	Improving rice production sustainability by reducing water demand and greenhouse gas emissions with biodegradable films. <i>Scientific Reports</i> , 2017 , 7, 39855	4.9	34
110	Annual emissions of nitrous oxide and nitric oxide from rice-wheat rotation and vegetable fields: a case study in the Tai-Lake region, China. <i>Plant and Soil</i> , 2012 , 360, 37-53	4.2	34
109	Modeling nitrogen loading in a small watershed in southwest China using a DNDC model with hydrological enhancements. <i>Biogeosciences</i> , 2011 , 8, 2999-3009	4.6	34
108	The increasing distribution area of zokor mounds weaken greenhouse gas uptakes by alpine meadows in the Qinghai-Tibetan Plateau. <i>Soil Biology and Biochemistry</i> , 2014 , 71, 105-112	7.5	33
107	Spatial variability of N ₂ O, CH ₄ and CO ₂ fluxes within the Xilin River catchment of Inner Mongolia, China: a soil core study. <i>Plant and Soil</i> , 2010 , 331, 341-359	4.2	33
106	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		33
105	Static opaque chamber-based technique for determination of net exchange of CO ₂ between terrestrial ecosystem and atmosphere. <i>Science Bulletin</i> , 2004 , 49, 381-388		33
104	Drip irrigation or reduced N-fertilizer rate can mitigate the high annual N ₂ O+NO fluxes from Chinese intensive greenhouse vegetable systems. <i>Atmospheric Environment</i> , 2019 , 212, 183-193	5.3	32
103	Greenhouse gas fluxes and NO release from a Chinese subtropical rice-winter wheat rotation system under nitrogen fertilizer management. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 623-638	3.7	32
102	Applicability of the soil gradient method for estimating soil-atmosphere CO ₂ , CH ₄ , and N ₂ O fluxes for steppe soils in Inner Mongolia. <i>Journal of Plant Nutrition and Soil Science</i> , 2011 , 174, 359-372	2.3	32
101	Annual nitric and nitrous oxide fluxes from Chinese subtropical plastic greenhouse and conventional vegetable cultivations. <i>Environmental Pollution</i> , 2015 , 196, 89-97	9.3	31
100	The effects of nitrogen fertilization on N ₂ O emissions from a rubber plantation. <i>Scientific Reports</i> , 2016 , 6, 28230	4.9	30
99	Modeling impacts of fertilization alternatives on nitrous oxide and nitric oxide emissions from conventional vegetable fields in southeastern China. <i>Atmospheric Environment</i> , 2013 , 81, 642-650	5.3	30
98	Comparison of the DNDC, LandscapeDNDC and IAP-N-GAS models for simulating nitrous oxide and nitric oxide emissions from the winter wheat-summer maize rotation system. <i>Agricultural Systems</i> , 2015 , 140, 1-10	6.1	29
97	Residue incorporation and N fertilization affect the response of soil nematodes to the elevated CO ₂ in a Chinese wheat field. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1497-1503	7.5	29

96	Seasonality of soil microbial nitrogen turnover in continental steppe soils of Inner Mongolia. <i>Ecosphere</i> , 2012 , 3, art34	3.1	28
95	Methane and nitrous oxide emissions from three paddy rice based cultivation systems in Southwest China. <i>Advances in Atmospheric Sciences</i> , 2006 , 23, 415-424	2.9	28
94	Modeling N ₂ O emissions from steppe in Inner Mongolia, China, with consideration of spring thaw and grazing intensity. <i>Plant and Soil</i> , 2012 , 350, 297-310	4.2	27
93	Reducing nitrous oxide emissions from the global food system. <i>Current Opinion in Environmental Sustainability</i> , 2014 , 9-10, 55-64	7.2	27
92	Effects of irrigation on nitrous oxide, methane and carbon dioxide fluxes in an Inner Mongolian steppe. <i>Advances in Atmospheric Sciences</i> , 2008 , 25, 748-756	2.9	27
91	Reducing NO and NO emissions while sustaining crop productivity in a Chinese vegetable-cereal double cropping system. <i>Environmental Pollution</i> , 2017 , 231, 929-941	9.3	26
90	Diel pattern of soil respiration in N-amended soil under maize cultivation. <i>Atmospheric Environment</i> , 2006 , 40, 3294-3305	5.3	26
89	Modeling ammonia volatilization following urea application to winter cereal fields in the United Kingdom by a revised biogeochemical model. <i>Science of the Total Environment</i> , 2019 , 660, 1403-1418	10.2	25
88	Growing season methane budget of an Inner Mongolian steppe. <i>Atmospheric Environment</i> , 2009 , 43, 3086-3095	9.3	25
87	Mitigation options for methane, nitrous oxide and nitric oxide emissions from agricultural ecosystems. <i>Advances in Atmospheric Sciences</i> , 2000 , 17, 83-92	2.9	25
86	Progressive nitrogen limitation across the Tibetan alpine permafrost region. <i>Nature Communications</i> , 2020 , 11, 3331	17.4	24
85	Annual emissions of greenhouse gases from sheepfolds in Inner Mongolia. <i>Plant and Soil</i> , 2011 , 340, 291-301	7.0	24
84	Effects of soil temperature on nitric oxide emission from a typical Chinese rice/wheat rotation during the non-waterlogged period. <i>Global Change Biology</i> , 2003 , 9, 601-611	11.4	24
83	Carbon dioxide emission from temperate semiarid steppe during the non-growing season. <i>Atmospheric Environment</i> , 2013 , 64, 141-149	5.3	23
82	Benefit of using biodegradable film on rice grain yield and N use efficiency in ground cover rice production system. <i>Field Crops Research</i> , 2017 , 201, 52-59	5.5	23
81	Seasonal variations in soil respiration and temperature sensitivity under three land-use types in hilly areas of the Sichuan Basin. <i>Soil Research</i> , 2008 , 46, 727	1.8	23
80	Quantitative dependence of methane emission on soil properties. <i>Nutrient Cycling in Agroecosystems</i> , 2002 , 64, 157-167	3.3	23
79	Modeling ammonia volatilization following the application of synthetic fertilizers to cultivated uplands with calcareous soils using an improved DNDC biogeochemistry model. <i>Science of the Total Environment</i> , 2019 , 660, 931-946	10.2	22

78	Three-year measurements of nitrous oxide emissions from cotton and wheat/maize rotational cropping systems. <i>Atmospheric Environment</i> , 2014 , 96, 201-208	5.3	22
77	Urea deep placement reduces yield-scaled greenhouse gas (CH ₄ and NO _x) and NO emissions from a ground cover rice production system. <i>Scientific Reports</i> , 2017 , 7, 11415	4.9	21
76	Nitrous oxide emissions from an agro-pastoral ecotone of northern China depending on land uses. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 213, 241-251	5.7	21
75	Dinitrogen fixation by biological soil crusts in an Inner Mongolian steppe. <i>Biology and Fertility of Soils</i> , 2009 , 45, 679-690	6.1	21
74	Methane emission from a simulated rice field ecosystem as influenced by hydroquinone and dicyandiamide. <i>Science of the Total Environment</i> , 2000 , 263, 243-53	10.2	21
73	Annual NO 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	10.2	20
72	Stand age amplifies greenhouse gas and NO releases following conversion of rice paddy to tea plantations in subtropical China. <i>Agricultural and Forest Meteorology</i> , 2018 , 248, 386-396	5.8	20
71	Effect of free-air atmospheric CO ₂ enrichment on dark respiration of rice plants (<i>Oryza sativa</i> L.). <i>Agriculture, Ecosystems and Environment</i> , 2006 , 115, 105-112	5.7	20
70	Nitrous oxide emissions from the wheat-growing season in eighteen Chinese paddy soils: an outdoor pot experiment. <i>Biology and Fertility of Soils</i> , 2002 , 36, 411-417	6.1	20
69	Importance of vegetation classes in modeling CH ₄ emissions from boreal and subarctic wetlands in Finland. <i>Science of the Total Environment</i> , 2016 , 572, 1111-1122	10.2	20
68	Quantification of year-round methane and nitrous oxide fluxes in a typical alpine shrub meadow on the Qinghai-Tibetan Plateau. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 255, 27-36	5.7	19
67	Field measures of the contribution of root respiration to soil respiration in an alder and cypress mixed plantation by two methods: trenching method and root biomass regression method. <i>European Journal of Forest Research</i> , 2008 , 127, 285-291	2.7	19
66	Nitric oxide emissions from rice-wheat rotation fields in eastern China: effect of fertilization, soil water content, and crop residue. <i>Plant and Soil</i> , 2010 , 336, 87-98	4.2	18
65	Net ecosystem carbon and greenhouse gas budgets in fiber and cereal cropping systems. <i>Science of the Total Environment</i> , 2019 , 647, 895-904	10.2	17
64	Ground cover rice production systems increase soil carbon and nitrogen stocks at regional scale. <i>Biogeosciences</i> , 2015 , 12, 4831-4840	4.6	17
63	Annual methane uptake by typical semiarid steppe in Inner Mongolia. <i>Journal of Geophysical Research</i> , 2010 , 115,		17
62	Increasing grassland degradation stimulates the non-growing season CO emissions from an alpine meadow on the Qinghai-Tibetan Plateau. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 26576-26591	5.1	16
61	The influence of free-air CO ₂ enrichment on microorganisms of a paddy soil in the rice-growing season. <i>Applied Soil Ecology</i> , 2007 , 35, 154-162	5	16

60	Annual methane uptake from different land uses in an agro-pastoral ecotone of northern China. <i>Agricultural and Forest Meteorology</i> , 2017 , 236, 67-77	5.8	15
59	Benefits of integrated nutrient management on NO and NO mitigations in water-saving ground cover rice production systems. <i>Science of the Total Environment</i> , 2019 , 646, 1155-1163	10.2	15
58	The effect of planting density on carbon dioxide, methane and nitrous oxide emissions from a cold paddy field in the Sanjiang Plain, northeast China. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 178, 64-70	5.7	15
57	Effects of land cover and soil properties on denitrification potential in soils of two semi-arid grasslands in Inner Mongolia, China. <i>Journal of Arid Environments</i> , 2013 , 92, 98-101	2.5	15
56	Potential benefits of liming to acid soils on climate change mitigation and food security. <i>Global Change Biology</i> , 2021 , 27, 2807-2821	11.4	15
55	Effects of Litter Inputs on N ₂ O Emissions from a Tropical Rainforest in Southwest China. <i>Ecosystems</i> , 2018 , 21, 1013-1026	3.9	15
54	Enhanced nitrogen cycling and N ₂ O loss in water-saving ground cover rice production systems (GCRPS). <i>Soil Biology and Biochemistry</i> , 2018 , 121, 77-86	7.5	14
53	Nitrous oxide emissions during the non-rice growing seasons of two subtropical rice-based rotation systems in southwest China. <i>Plant and Soil</i> , 2014 , 383, 401-414	4.2	14
52	An urban polluted river as a significant hotspot for water-atmosphere exchange of CH and NO. <i>Environmental Pollution</i> , 2020 , 264, 114770	9.3	14
51	Influences of observation method, season, soil depth, land use and management practice on soil dissolvable organic carbon concentrations: A meta-analysis. <i>Science of the Total Environment</i> , 2018 , 631-632, 105-114	10.2	13
50	Influences of free-air CO ₂ enrichment (FACE), nitrogen fertilizer and crop residue incorporation on CH ₄ emissions from irrigated rice fields. <i>Nutrient Cycling in Agroecosystems</i> , 2012 , 93, 373-385	3.3	13
49	Annual methane emissions from degraded alpine wetlands in the eastern Tibetan Plateau. <i>Science of the Total Environment</i> , 2019 , 657, 1323-1333	10.2	13
48	Annual dynamics of soil gross nitrogen turnover and nitrous oxide emissions in an alpine shrub meadow. <i>Soil Biology and Biochemistry</i> , 2019 , 138, 107576	7.5	12
47	Sheepfolds as Hotspots of nitric oxide (NO) emission in an Inner Mongolian steppe. <i>Agriculture, Ecosystems and Environment</i> , 2009 , 134, 136-142	5.7	12
46	A process-oriented hydro-biogeochemical model enabling simulation of gaseous carbon and nitrogen emissions and hydrologic nitrogen losses from a subtropical catchment. <i>Science of the Total Environment</i> , 2018 , 616-617, 305-317	10.2	12
45	Effects of increasing fertilization rates on nitric oxide emission and nitrogen use efficiency in low carbon calcareous soil. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 203, 83-92	5.7	11
44	Dependence of wheat and rice respiration on tissue nitrogen and the corresponding net carbon fixation efficiency under different rates of nitrogen application. <i>Advances in Atmospheric Sciences</i> , 2007 , 24, 55-64	2.9	11
43	Effects of copper concentration on methane emission from rice soils. <i>Chemosphere</i> , 2005 , 58, 185-93	8.4	11

42	Long-term grazing effects on soil-atmosphere exchanges of CO ₂ , CH ₄ and N ₂ O at different grasslands in Inner Mongolia: A soil core study. <i>Ecological Indicators</i> , 2019 , 105, 316-328	5.8	11
41	Using field-measured soil N ₂ O fluxes and laboratory scale parameterization of N ₂ O/(N ₂ O+N ₂) ratios to quantify field-scale soil N ₂ emissions. <i>Soil Biology and Biochemistry</i> , 2020 , 148, 107904	7.5	10
40	Modeling N ₂ O Emissions from Agricultural Fields in Southeast China. <i>Advances in Atmospheric Sciences</i> , 1999 , 16, 581-592	2.9	10
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13	Designing a regional nitrogen cycle module of grassland for the IAP-N model. <i>Advances in Atmospheric Sciences</i> , 2012 , 29, 320-332	2.9	1
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10	Characteristics of annual NO and NO _x fluxes from Chinese urban turfgrasses. <i>Environmental Pollution</i> , 2021 , 290, 118017	9.3	1
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