Xunhua Zheng

List of Publications by Year in Descending Order

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 significant diurnal pattern of ammonia dry deposition to a cropland is detected by an open-path quantum cascade laser-based eddy covariance instrument. *Atmospheric Environment*, **2022**, 119070	5.3	0
184	Soil clay minerals: An overlooked mediator of gross N transformations in Regosolic soils of subtropical montane landscapes. *Soil Biology and Biochemistry*, **2022**, 168, 108612	7.5	1
183	Full straw incorporation into a calcareous soil increased N2O emission despite more N2O being reduced to N2 in the winter crop season. *Agriculture, Ecosystems and Environment*, **2022**, 335, 108007	5.7	0
182	Heavy metal and nutrient concentrations in top- and sub-soils of greenhouses and arable fields in East China Effects of cultivation years, management, and shelter. *Environmental Pollution*, **2022**, 307, 119494	9.3	1
181	Potential benefits of liming to acid soils on climate change mitigation and food security. *Global Change Biology*, **2021**, 27, 2807-2821	11.4	15
180	Less intensive nitrate leaching from Phaeozems cultivated with maize generally occurs in northeastern China. *Agriculture, Ecosystems and Environment*, **2021**, 310, 107303	5.7	2
179	An improved process-oriented hydro-biogeochemical model for simulating dynamic fluxes of methane and nitrous oxide in alpine ecosystems with seasonally frozen soils. *Biogeosciences*, **2021**, 18, 4211-4225	4.6	
178	Elevated atmospheric CO reduces yield-scaled N O fluxes from subtropical rice systems: Six site-years field experiments. *Global Change Biology*, **2021**, 27, 327-339	11.4	6
177	Drivers of difference in CO2 and CH4 emissions between rubber plantation and tropical rainforest soils. *Agricultural and Forest Meteorology*, **2021**, 304-305, 108391	5.8	0
176	An open-path ammonia analyzer for eddy covariance flux measurement. *Agricultural and Forest Meteorology*, **2021**, 308-309, 108570	5.8	2
175	Attempt to correct grassland N2O fluxes biased by the DN-based opaque static chamber measurement. *Atmospheric Environment*, **2021**, 264, 118687	5.3	1
174	Characteristics of annual NO and NO fluxes from Chinese urban turfgrasses. *Environmental Pollution*, **2021**, 290, 118017	9.3	1
173	Using field-measured soil N2O fluxes and laboratory scale parameterization of N2O/(N2O+N2) ratios to quantify field-scale soil N2 emissions. *Soil Biology and Biochemistry*, **2020**, 148, 107904	7.5	10
172	Soil N intensity as a measure to estimate annual N2O and NO fluxes from natural and managed ecosystems. *Current Opinion in Environmental Sustainability*, **2020**, 47, 1-6	7.2	7
171	Effects of fertilization and stand age on N₂O and NO emissions from tea plantations: a site-scale study in a subtropical region using a modified biogeochemical model. *Atmospheric Chemistry and Physics*, **2020**, 20, 6903-6919	6.8	3
170	Progressive nitrogen limitation across the Tibetan alpine permafrost region. *Nature Communications*, **2020**, 11, 3331	17.4	24
169	Applicability of a gas analyzer with dual quantum cascade lasers for simultaneous measurements of NO, CH and CO fluxes from cropland using the eddy covariance technique. *Science of the Total Environment*, **2020**, 729, 138784	10.2	7

168	An urban polluted river as a significant hotspot for water-atmosphere exchange of CH and NO. *Environmental Pollution*, **2020**, 264, 114770	9.3	14
167	Tea-planted soils as global hotspots for N2O emissions from croplands. *Environmental Research Letters*, **2020**, 15, 104018	6.2	7
166	Applicability of a closed-path quantum cascade laser spectrometer for eddy covariance (EC) flux measurements of nitric oxide (NO) over a cropland during a low emission period. *Agricultural and Forest Meteorology*, **2020**, 282-283, 107855	5.8	2
165	Annual dynamics of soil gross nitrogen turnover and nitrous oxide emissions in an alpine shrub meadow. *Soil Biology and Biochemistry*, **2019**, 138, 107576	7.5	12
164	Fertilizer nitrogen loss via N2 emission from calcareous soil following basal urea application of winter wheat. *Atmospheric and Oceanic Science Letters*, **2019**, 12, 91-97	1.4	3
163	Drip irrigation or reduced N-fertilizer rate can mitigate the high annual N2O+NO fluxes from Chinese intensive greenhouse vegetable systems. *Atmospheric Environment*, **2019**, 212, 183-193	5.3	32
162	Characteristics of annual greenhouse gas flux and NO release from alpine meadow and forest on the eastern Tibetan Plateau. *Agricultural and Forest Meteorology*, **2019**, 272-273, 166-175	5.8	8
161	Year-round measurements of nitrous oxide emissions and direct emission factors in extensively managed croplands under an alpine climate. *Agricultural and Forest Meteorology*, **2019**, 274, 18-28	5.8	4
160	Effects of Grazing Pattern on Ecosystem Respiration and Methane Flux in a Sown Pasture in Inner Mongolia, China. *Atmosphere*, **2019**, 10, 5	2.7	3
159	Modeling ammonia volatilization following the application of synthetic fertilizers to cultivated uplands with calcareous soils using an improved DNDC biogeochemistry model. *Science of the Total Environment*, **2019**, 660, 931-946	10.2	22
158	Modeling ammonia volatilization following urea application to winter cereal fields in the United Kingdom by a revised biogeochemical model. *Science of the Total Environment*, **2019**, 660, 1403-1418	10.2	25
157	Benefits of integrated nutrient management on NO and NO mitigations in water-saving ground cover rice production systems. *Science of the Total Environment*, **2019**, 646, 1155-1163	10.2	15
156	Net ecosystem carbon and greenhouse gas budgets in fiber and cereal cropping systems. *Science of the Total Environment*, **2019**, 647, 895-904	10.2	17
155	A new era of China-Germany joint research exploring the climate mystery of Earth. *Science Bulletin*, **2019**, 64, 1733-1736	10.6	1
154	Using a modified DNDC biogeochemical model to optimize field management of a multi-crop (cotton, wheat, and maize) system: a site-scale case study in northern China. *Biogeosciences*, **2019**, 16, 2905-2922	4.6	6
153	Characterizing nitric oxide emissions from two typical alpine ecosystems. *Journal of Environmental Sciences*, **2019**, 77, 312-322	6.4	
152	Annual methane emissions from degraded alpine wetlands in the eastern Tibetan Plateau. *Science of the Total Environment*, **2019**, 657, 1323-1333	10.2	13
151	Long-term grazing effects on soil-atmosphere exchanges of CO2, CH4 and N2O at different grasslands in Inner Mongolia: A soil core study. *Ecological Indicators*, **2019**, 105, 316-328	5.8	11

150	Influences of observation method, season, soil depth, land use and management practice on soil dissolvable organic carbon concentrations: A meta-analysis. *Science of the Total Environment*, **2018**, 631-632, 105-114	10.2	13
149	Annual NO emissions from conventionally grazed typical alpine grass meadows in the eastern Qinghai-Tibetan Plateau. *Science of the Total Environment*, **2018**, 625, 885-899	10.2	20
148	Quantification of year-round methane and nitrous oxide fluxes in a typical alpine shrub meadow on the Qinghai-Tibetan Plateau. *Agriculture, Ecosystems and Environment*, **2018**, 255, 27-36	5.7	19
147	Stand age amplifies greenhouse gas and NO releases following conversion of rice paddy to tea plantations in subtropical China. *Agricultural and Forest Meteorology*, **2018**, 248, 386-396	5.8	20
146	Enhanced nitrogen cycling and N2O loss in water-saving ground cover rice production systems (GCRPS). *Soil Biology and Biochemistry*, **2018**, 121, 77-86	7.5	14
145	Increasing grassland degradation stimulates the non-growing season CO emissions from an alpine meadow on the Qinghai-Tibetan Plateau. *Environmental Science and Pollution Research*, **2018**, 25, 26576-26591	5.1	16
144	Effects of Litter Inputs on N2O Emissions from a Tropical Rainforest in Southwest China. *Ecosystems*, **2018**, 21, 1013-1026	3.9	15
143	A process-oriented hydro-biogeochemical model enabling simulation of gaseous carbon and nitrogen emissions and hydrologic nitrogen losses from a subtropical catchment. *Science of the Total Environment*, **2018**, 616-617, 305-317	10.2	12
142	A generic methodological framework for accurately quantifying greenhouse gas footprints of crop cultivation systems. *Atmospheric and Oceanic Science Letters*, **2018**, 11, 15-28	1.4	2
141	Non-cropping period accounting for over a half of annual nitric oxide releases from cultivated calcareous-soil alpine ecosystems with marginally low emission factors. *Atmospheric and Oceanic Science Letters*, **2018**, 11, 338-344	1.4	
140	Conversion from rice to vegetable production increases NO emission via increased soil organic matter mineralization. *Science of the Total Environment*, **2017**, 583, 190-201	10.2	40
139	Improving rice production sustainability by reducing water demand and greenhouse gas emissions with biodegradable films. *Scientific Reports*, **2017**, 7, 39855	4.9	34
138	Annual methane uptake from different land uses in an agro-pastoral ecotone of northern China. *Agricultural and Forest Meteorology*, **2017**, 236, 67-77	5.8	15
137	Straw return reduces yield-scaled NO plus NO emissions from annual winter wheat-based cropping systems in the North China Plain. *Science of the Total Environment*, **2017**, 590-591, 174-185	10.2	42
136	Reducing NO and NO emissions while sustaining crop productivity in a Chinese vegetable-cereal double cropping system. *Environmental Pollution*, **2017**, 231, 929-941	9.3	26
135	Urea deep placement reduces yield-scaled greenhouse gas (CH and NO) and NO emissions from a ground cover rice production system. *Scientific Reports*, **2017**, 7, 11415	4.9	21
134	Responses of CH and NO fluxes to land-use conversion and fertilization in a typical red soil region of southern China. *Scientific Reports*, **2017**, 7, 10571	4.9	3
133	Benefit of using biodegradable film on rice grain yield and N use efficiency in ground cover rice production system. *Field Crops Research*, **2017**, 201, 52-59	5.5	23

132	Effects of N Fertilizer Application on Soil N2O Emissions and CH4 Uptake: A Two-Year Study in an Apple Orchard in Eastern China. *Atmosphere*, **2017**, 8, 181	2.7	9
131	The effects of nitrogen fertilization on N2O emissions from a rubber plantation. *Scientific Reports*, **2016**, 6, 28230	4.9	30
130	Urban stress-induced biogenic VOC emissions and SOA-forming potentials in Beijing. *Atmospheric Chemistry and Physics*, **2016**, 16, 2901-2920	6.8	47
129	Is green tea still □green□. *Geo: Geography and Environment*, **2016**, 3, e00021	0.7	7
128	Applicability of an eddy covariance system based on a close-path quantum cascade laser spectrometer for measuring nitrous oxide fluxes from subtropical vegetable fields. *Atmospheric and Oceanic Science Letters*, **2016**, 9, 381-387	1.4	4
127	Importance of vegetation classes in modeling CH emissions from boreal and subarctic wetlands in Finland. *Science of the Total Environment*, **2016**, 572, 1111-1122	10.2	20
126	Nitrous oxide and methane emissions from a subtropical rice□apeseed rotation system in China: A 3-year field case study. *Agriculture, Ecosystems and Environment*, **2015**, 212, 297-309	5.7	55
125	Characteristics of annual nitrous and nitric oxide emissions from major cereal crops in the North China Plain under alternative fertilizer management. *Agriculture, Ecosystems and Environment*, **2015**, 207, 67-78	5.7	37
124	Comparison of the DNDC, LandscapeDNDC and IAP-N-GAS models for simulating nitrous oxide and nitric oxide emissions from the winter wheat□ummer maize rotation system. *Agricultural Systems*, **2015**, 140, 1-10	6.1	29
123	Annual nitric and nitrous oxide fluxes from Chinese subtropical plastic greenhouse and conventional vegetable cultivations. *Environmental Pollution*, **2015**, 196, 89-97	9.3	31
122	Nitrous oxide emissions from black soils under a continuous soybean cropping system in northeast China. *Journal of Soil Science and Plant Nutrition*, **2015**, 0-0	3.2	
121	Ground cover rice production systems increase soil carbon and nitrogen stocks at regional scale. *Biogeosciences*, **2015**, 12, 4831-4840	4.6	17
120	Organically fertilized tea plantation stimulates N₂O emissions and lowers NO fluxes in subtropical China. *Biogeosciences*, **2015**, 12, 5915-5928	4.6	40
119	Nitrous oxide emissions from an agro-pastoral ecotone of northern China depending on land uses. *Agriculture, Ecosystems and Environment*, **2015**, 213, 241-251	5.7	21
118	Effects of increasing fertilization rates on nitric oxide emission and nitrogen use efficiency in low carbon calcareous soil. *Agriculture, Ecosystems and Environment*, **2015**, 203, 83-92	5.7	11
117	The increasing distribution area of zokor mounds weaken greenhouse gas uptakes by alpine meadows in the Qinghai□Tibetan Plateau. *Soil Biology and Biochemistry*, **2014**, 71, 105-112	7.5	33
116	Three-year measurements of nitrous oxide emissions from cotton and wheat□haize rotational cropping systems. *Atmospheric Environment*, **2014**, 96, 201-208	5.3	22
115	Assessing biogeochemical effects and best management practice for a wheat□haize cropping system using the DNDC model. *Biogeosciences*, **2014**, 11, 91-107	4.6	65

114	Water-saving ground cover rice production system reduces net greenhouse gas fluxes in an annual rice-based cropping system. *Biogeosciences*, **2014**, 11, 6221-6236	4.6	35
113	N2O emissions from an apple orchard in the coastal area of Bohai Bay, China. *Scientific World Journal, The*, **2014**, 2014, 164732	2.2	1
112	Reducing nitrous oxide emissions from the global food system. *Current Opinion in Environmental Sustainability*, **2014**, 9-10, 55-64	7.2	27
111	Nitrous oxide emissions during the non-rice growing seasons of two subtropical rice-based rotation systems in southwest China. *Plant and Soil*, **2014**, 383, 401-414	4.2	14
110	Oxygen and substrate availability interactively control the temperature sensitivity of CO2 and N2O emission from soil. *Biology and Fertility of Soils*, **2014**, 50, 775-783	6.1	40
109	Effects of nitrate concentration on the denitrification potential of a calcic cambisol and its fractions of N2, N2O and NO. *Plant and Soil*, **2013**, 363, 175-189	4.2	44
108	Nitrous oxide emissions and nitrate leaching from a rain-fed wheat-maize rotation in the Sichuan Basin, China. *Plant and Soil*, **2013**, 362, 149-159	4.2	44
107	Greenhouse gas fluxes and NO release from a Chinese subtropical rice-winter wheat rotation system under nitrogen fertilizer management. *Journal of Geophysical Research G: Biogeosciences*, **2013**, 118, 623-638	3.7	32
106	Automated online measurement of N2, N2O, NO, CO2, and CH4 emissions based on a gas-flow-soil-core technique. *Chemosphere*, **2013**, 93, 2848-53	8.4	6
105	Comparison between static chamber and tunable diode laser-based eddy covariance techniques for measuring nitrous oxide fluxes from a cotton field. *Agricultural and Forest Meteorology*, **2013**, 171-172, 9-19	5.8	76
104	Modeling impacts of fertilization alternatives on nitrous oxide and nitric oxide emissions from conventional vegetable fields in southeastern China. *Atmospheric Environment*, **2013**, 81, 642-650	5.3	30
103	Carbon dioxide emission from temperate semiarid steppe during the non-growing season. *Atmospheric Environment*, **2013**, 64, 141-149	5.3	23
102	Effects of increasing precipitation and nitrogen deposition on CH4 and N2O fluxes and ecosystem respiration in a degraded steppe in Inner Mongolia, China. *Geoderma*, **2013**, 192, 335-340	6.7	64
101	The effect of planting density on carbon dioxide, methane and nitrous oxide emissions from a cold paddy field in the Sanjiang Plain, northeast China. *Agriculture, Ecosystems and Environment*, **2013**, 178, 64-70	5.7	15
100	Two-year simultaneous records of N2O and NO fluxes from a farmed cropland in the northern China plain with a reduced nitrogen addition rate by one-third. *Agriculture, Ecosystems and Environment*, **2013**, 178, 39-50	5.7	42
99	Effects of land cover and soil properties on denitrification potential in soils of two semi-arid grasslands in Inner Mongolia, China. *Journal of Arid Environments*, **2013**, 92, 98-101	2.5	15
98	N balance and cycling of Inner Mongolia typical steppe: a comprehensive case study of grazing effects. *Ecological Monographs*, **2013**, 83, 195-219	9	74
97	Nitrous oxide and methane fluxes from a rice–wheat crop rotation under wheat residue incorporation and no-tillage practices. *Atmospheric Environment*, **2013**, 79, 641-649	5.3	70

96	Comparison between eddy covariance and automatic chamber techniques for measuring net ecosystem exchange of carbon dioxide in cotton and wheat fields. *Biogeosciences*, **2013**, 10, 6865-6877	4.6	44
95	Spatially explicit regionalization of airborne flux measurements using environmental response functions. *Biogeosciences*, **2013**, 10, 2193-2217	4.6	50
94	Effects of nitrification inhibitors (DCD and DMPP) on nitrous oxide emission, crop yield and nitrogen uptake in a wheat□maize cropping system. *Biogeosciences*, **2013**, 10, 2427-2437	4.6	114
93	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. *Soil Biology and Biochemistry*, **2012**, 48, 10-19	7.5	125
92	Modeling N2O emissions from steppe in Inner Mongolia, China, with consideration of spring thaw and grazing intensity. *Plant and Soil*, **2012**, 350, 297-310	4.2	27
91	Grazing effects on the greenhouse gas balance of a temperate steppe ecosystem. *Nutrient Cycling in Agroecosystems*, **2012**, 93, 357-371	3.3	42
90	Influences of free-air CO2 enrichment (FACE), nitrogen fertilizer and crop residue incorporation on CH4 emissions from irrigated rice fields. *Nutrient Cycling in Agroecosystems*, **2012**, 93, 373-385	3.3	13
89	Annual emissions of nitrous oxide and nitric oxide from rice-wheat rotation and vegetable fields: a case study in the Tai-Lake region, China. *Plant and Soil*, **2012**, 360, 37-53	4.2	34
88	Designing a regional nitrogen cycle module of grassland for the IAP-N model. *Advances in Atmospheric Sciences*, **2012**, 29, 320-332	2.9	1
87	A 3-year record of N2O and CH4 emissions from a sandy loam paddy during rice seasons as affected by different nitrogen application rates. *Agriculture, Ecosystems and Environment*, **2012**, 152, 1-9	5.7	112
86	Responses of N₂O and CH₄ fluxes to fertilizer nitrogen addition rates in an irrigated wheat-maize cropping system in northern China. *Biogeosciences*, **2012**, 9, 839-850	4.6	84
85	Seasonality of soil microbial nitrogen turnover in continental steppe soils of Inner Mongolia. *Ecosphere*, **2012**, 3, art34	3.1	28
84	Characteristics of multiple-year nitrous oxide emissions from conventional vegetable fields in southeastern China. *Journal of Geophysical Research*, **2011**, 116,		39
83	Modeling nitrogen loadings from agricultural soils in southwest China with modified DNDC. *Journal of Geophysical Research*, **2011**, 116,		40
82	Measurement of N2, N2O, NO, and CO2 emissions from soil with the gas-flow-soil-core technique. *Environmental Science & Technology*, **2011**, 45, 6066-72	10.3	50
81	Modeling nitrogen loading in a small watershed in southwest China using a DNDC model with hydrological enhancements. *Biogeosciences*, **2011**, 8, 2999-3009	4.6	34
80	Applicability of the soil gradient method for estimating soil□atmosphere CO2, CH4, and N2O fluxes for steppe soils in Inner Mongolia. *Journal of Plant Nutrition and Soil Science*, **2011**, 174, 359-372	2.3	32
79	Annual methane uptake by temperate semiarid steppes as regulated by stocking rates, aboveground plant biomass and topsoil air permeability. *Global Change Biology*, **2011**, 17, 2803-2816	11.4	83

78	Effect of ammonium-based, non-sulfate fertilizers on CH4 emissions from a paddy field with a typical Chinese water management regime. *Atmospheric Environment*, **2011**, 45, 1095-1101	5.3	74
77	Effects of irrigation, fertilization and crop straw management on nitrous oxide and nitric oxide emissions from a wheat□maize rotation field in northern China. *Agriculture, Ecosystems and Environment*, **2011**, 140, 226-233	5.7	163
76	Annual emissions of greenhouse gases from sheepfolds in Inner Mongolia. *Plant and Soil*, **2011**, 340, 291-301	4.2	24
75	Feedback of grazing on gross rates of N mineralization and inorganic N partitioning in steppe soils of Inner Mongolia. *Plant and Soil*, **2011**, 340, 127-139	4.2	43
74	Grazing-induced reduction of natural nitrous oxide release from continental steppe. *Nature*, **2010**, 464, 881-4	50.4	206
73	Atmospheric CO2 enrichment facilitates cation release from soil. *Ecology Letters*, **2010**, 13, 284-91	10	67
72	Soil-atmosphere exchange potential of NO and N2O in different land use types of Inner Mongolia as affected by soil temperature, soil moisture, freeze-thaw, and drying-wetting events. *Journal of Geophysical Research*, **2010**, 115,		45
71	Annual methane uptake by typical semiarid steppe in Inner Mongolia. *Journal of Geophysical Research*, **2010**, 115,		17
70	Effects of tillage during the nonwaterlogged period on nitrous oxide and nitric oxide emissions in typical Chinese rice-wheat rotation ecosystems. *Journal of Geophysical Research*, **2010**, 115,		9
69	Modeling methane emissions from paddy rice fields under elevated atmospheric carbon dioxide conditions. *Advances in Atmospheric Sciences*, **2010**, 27, 100-114	2.9	9
68	A process-based model of N2O emission from a rice-winter wheat rotation agro-ecosystem: Structure, validation and sensitivity. *Advances in Atmospheric Sciences*, **2010**, 27, 137-150	2.9	5
67	Effects of nitrogen fertilizer on CH4 emission from rice fields: multi-site field observations. *Plant and Soil*, **2010**, 326, 393-401	4.2	82
66	Effects of organic matter incorporation on nitrous oxide emissions from rice-wheat rotation ecosystems in China. *Plant and Soil*, **2010**, 327, 315-330	4.2	89
65	Spatial variability of N2O, CH4 and CO2 fluxes within the Xilin River catchment of Inner Mongolia, China: a soil core study. *Plant and Soil*, **2010**, 331, 341-359	4.2	33
64	Nitrous oxide and nitric oxide emissions from an irrigated cotton field in Northern China. *Plant and Soil*, **2010**, 332, 123-134	4.2	95
63	Nitric oxide emissions from rice-wheat rotation fields in eastern China: effect of fertilization, soil water content, and crop residue. *Plant and Soil*, **2010**, 336, 87-98	4.2	18
62	Effects of soil moisture and temperature on CO2 and CH4 soil□atmosphere exchange of various land use/cover types in a semi-arid grassland in Inner Mongolia, China. *Soil Biology and Biochemistry*, **2010**, 42, 773-787	7.5	126
61	Residue incorporation and N fertilization affect the response of soil nematodes to the elevated CO2 in a Chinese wheat field. *Soil Biology and Biochemistry*, **2009**, 41, 1497-1503	7.5	29

60	Tillage and crop residue management significantly affects N-trace gas emissions during the non-rice season of a subtropical rice-wheat rotation. *Soil Biology and Biochemistry*, **2009**, 41, 2131-2140	7.5	88
59	Comparison of manual and automated chambers for field measurements of N2O, CH4, CO2 fluxes from cultivated land. *Atmospheric Environment*, **2009**, 43, 1888-1896	5.3	58
58	Nitric oxide emissions from conventional vegetable fields in southeastern China. *Atmospheric Environment*, **2009**, 43, 2762-2769	5.3	42
57	Growing season methane budget of an Inner Mongolian steppe. *Atmospheric Environment*, **2009**, 43, 3086-3095	5.3	25
56	Background nitrous oxide emissions from croplands in China in the year 2000. *Plant and Soil*, **2009**, 320, 307-320	4.2	40
55	Dinitrogen fixation by biological soil crusts in an Inner Mongolian steppe. *Biology and Fertility of Soils*, **2009**, 45, 679-690	6.1	21
54	Sheepfolds as □hotspots□ of nitric oxide (NO) emission in an Inner Mongolian steppe. *Agriculture, Ecosystems and Environment*, **2009**, 134, 136-142	5.7	12
53	Quantifying net ecosystem carbon dioxide exchange of a short-plant cropland with intermittent chamber measurements. *Global Biogeochemical Cycles*, **2008**, 22, n/a-n/a	5.9	47
52	Seasonal variations in soil respiration and temperature sensitivity under three land-use types in hilly areas of the Sichuan Basin. *Soil Research*, **2008**, 46, 727	1.8	23
51	Fluxes of nitrous oxide, methane and carbon dioxide during freezing□thawing cycles in an Inner Mongolian steppe. *Plant and Soil*, **2008**, 308, 105-117	4.2	89
50	Quantification of N2O fluxes from soil□plant systems may be biased by the applied gas chromatograph methodology. *Plant and Soil*, **2008**, 311, 211-234	4.2	215
49	Description and application of a model for simulating regional nitrogen cycling and calculating nitrogen flux. *Advances in Atmospheric Sciences*, **2008**, 25, 181-201	2.9	9
48	Effects of irrigation on nitrous oxide, methane and carbon dioxide fluxes in an Inner Mongolian steppe. *Advances in Atmospheric Sciences*, **2008**, 25, 748-756	2.9	27
47	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. *European Journal of Forest Research*, **2008**, 127, 285-291	2.7	19
46	Winter-grazing reduces methane uptake by soils of a typical semi-arid steppe in Inner Mongolia, China. *Atmospheric Environment*, **2007**, 41, 5948-5958	5.3	77
45	Quantifying direct N2O emissions in paddy fields during rice growing season in mainland China: Dependence on water regime. *Atmospheric Environment*, **2007**, 41, 8030-8042	5.3	214
44	Nitrous oxide emissions from an intensively cultivated maize-wheat rotation soil in the North China Plain. *Science of the Total Environment*, **2007**, 373, 501-11	10.2	139
43	CO2 emission in an intensively cultivated loam as affected by long-term application of organic manure and nitrogen fertilizer. *Soil Biology and Biochemistry*, **2007**, 39, 669-679	7.5	134

42	Effects of nitrogen on the ecosystem respiration, CH4 and N2O emissions to the atmosphere from the freshwater marshes in northeast China. *Environmental Geology*, **2007**, 52, 529-539		33
41	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	2.9	11
40	Regulatory effects of soil properties on background N2O emissions from agricultural soils in China. *Plant and Soil*, **2007**, 295, 53-65	4.2	50
39	Importance of point sources on regional nitrous oxide fluxes in semi-arid steppe of Inner Mongolia, China. *Plant and Soil*, **2007**, 296, 209-226	4.2	37
38	Fluxes of methane and nitrous oxide in water-saving rice production in north China. *Nutrient Cycling in Agroecosystems*, **2007**, 77, 293-304	3.3	74
37	Microbial N Turnover and N-Oxide (N2O/NO/NO2) Fluxes in Semi-arid Grassland of Inner Mongolia. *Ecosystems*, **2007**, 10, 623-634	3.9	59
36	Net primary production of Chinese croplands from 1950 to 1999 **2007**, 17, 692-701		118
35	Soil Respiration under Maize Crops: Effects of Water, Temperature, and Nitrogen Fertilization. *Soil Science Society of America Journal*, **2007**, 71, 944-951	2.5	66
34	The influence of free-air CO2 enrichment on microorganisms of a paddy soil in the rice-growing season. *Applied Soil Ecology*, **2007**, 35, 154-162	5	16
33	Methane and nitrous oxide emissions from three paddy rice based cultivation systems in Southwest China. *Advances in Atmospheric Sciences*, **2006**, 23, 415-424	2.9	28
32	Diel pattern of soil respiration in N-amended soil under maize cultivation. *Atmospheric Environment*, **2006**, 40, 3294-3305	5.3	26
31	Estimates of methane emissions from Chinese rice paddies by linking a model to GIS database. *Acta Ecologica Sinica*, **2006**, 26, 980-987	2.7	60
30	An inventory of N(2)O emissions from agriculture in China using precipitation-rectified emission factor and background emission. *Chemosphere*, **2006**, 65, 1915-24	8.4	85
29	Nitrogen-regulated effects of free-air CO2 enrichment on methane emissions from paddy rice fields. *Global Change Biology*, **2006**, 12, 1717-1732	11.4	71
28	Effect of free-air atmospheric CO2 enrichment on dark respiration of rice plants (Oryza sativa L.). *Agriculture, Ecosystems and Environment*, **2006**, 115, 105-112	5.7	20
27	N2O, CH4 and CO2 emissions from seasonal tropical rainforests and a rubber plantation in Southwest China. *Plant and Soil*, **2006**, 289, 335-353	4.2	121
26	Effects of copper concentration on methane emission from rice soils. *Chemosphere*, **2005**, 58, 185-93	8.4	11
25	Effects of environmental factors on N2O emission from and CH4 uptake by the typical grasslands in the Inner Mongolia. *Chemosphere*, **2005**, 58, 205-15	8.4	121

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