

# Chunyan Liu

## List of Publications by Year in descending order

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99  
papers

4,269  
citations

117625

34  
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118850

62  
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99  
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99  
docs citations

99  
times ranked

5742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Annual greenhouse gas emissions from sheepfolds and cattle sheds. <i>Soil Use and Management</i> , 2022, 38, 369-380.	4.9	6
2	A review of the importance of mineral nitrogen cycling in the plant-soil-microbe system of permafrost-affected soils—changing the paradigm. <i>Environmental Research Letters</i> , 2022, 17, 013004.	5.2	29
3	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, .	3.0	1
4	Update of a biogeochemical model with process-based algorithms to predict ammonia volatilization from fertilized cultivated uplands and rice paddy fields. <i>Biogeosciences</i> , 2022, 19, 3001-3019.	3.3	2
5	Alder-induced stimulation of soil gross nitrogen turnover in a permafrost-affected peatland of Northeast China. <i>Soil Biology and Biochemistry</i> , 2022, 172, 108757.	8.8	9
6	Elevated atmospheric CO <sub>2</sub> reduces yield-scaled N <sub>2</sub> O fluxes from subtropical rice systems: Six site-years field experiments. <i>Global Change Biology</i> , 2021, 27, 327-339.	9.5	19
7	Less intensive nitrate leaching from Phaeozems cultivated with maize generally occurs in northeastern China. <i>Agriculture, Ecosystems and Environment</i> , 2021, 310, 107303.	5.3	11
8	An improved process-oriented hydro-biogeochemical model for simulating dynamic fluxes of methane and nitrous oxide in alpine ecosystems with seasonally frozen soils. <i>Biogeosciences</i> , 2021, 18, 4211-4225.	3.3	0
9	Continuous Flow Synthesis of Persistent Luminescent Chromium-Doped Zinc Gallate Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7067-7075.	4.6	8
10	Attempt to correct grassland N <sub>2</sub> O fluxes biased by the DN-based opaque static chamber measurement. <i>Atmospheric Environment</i> , 2021, 264, 118687.	4.1	3
11	Doping Lanthanide Nanocrystals With Non-lanthanide Ions to Simultaneously Enhance Up- and Down-Conversion Luminescence. <i>Frontiers in Chemistry</i> , 2020, 8, 832.	3.6	21
12	Revisiting the Concentration Observations and Source Apportionment of Atmospheric Ammonia. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 933-938.	4.3	36
13	The Forgotten Nutrient—The Role of Nitrogen in Permafrost Soils of Northern China. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 793-799.	4.3	7
14	Dinitrogen (N <sub>2</sub> ) pulse emissions during freeze-thaw cycles from montane grassland soil. <i>Biology and Fertility of Soils</i> , 2020, 56, 959-972.	4.3	17
15	Soil N intensity as a measure to estimate annual N <sub>2</sub> O and NO fluxes from natural and managed ecosystems. <i>Current Opinion in Environmental Sustainability</i> , 2020, 47, 1-6.	6.3	19
16	Ammonia should be considered in field experiments mimicking nitrogen deposition. <i>Atmospheric and Oceanic Science Letters</i> , 2020, 13, 248-251.	1.3	9
17	Effects of fertilization and stand age on N <sub>2</sub> O and NO emissions from tea plantations: a site-scale study in a subtropical region using a modified biogeochemical model. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6903-6919.	4.9	10
18	Activable Multi-Modal Nanoprobes for Imaging Diagnosis and Therapy of Tumors. <i>Frontiers in Chemistry</i> , 2020, 8, 572471.	3.6	9

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19	Tea-planted soils as global hotspots for N <sub>2</sub> O emissions from croplands. Environmental Research Letters, 2020, 15, 104018.	5.2	23
20	Benefits of integrated nutrient management on N <sub>2</sub> O and NO mitigations in water-saving ground cover rice production systems. Science of the Total Environment, 2019, 646, 1155-1163.	8.0	28
21	Net ecosystem carbon and greenhouse gas budgets in fiber and cereal cropping systems. Science of the Total Environment, 2019, 647, 895-904.	8.0	31
22	Using a modified DNDC biogeochemical model to optimize field management of a multi-crop (cotton, soybean, maize) system in the Yellow River Basin. Agricultural and Forest Meteorology, 2019, 274, 18-28.	3.9	11
23	Annual dynamics of soil gross nitrogen turnover and nitrous oxide emissions in an alpine shrub meadow. Soil Biology and Biochemistry, 2019, 138, 107576.	8.8	24
24	Drip irrigation or reduced N-fertilizer rate can mitigate the high annual N <sub>2</sub> O+NO fluxes from Chinese intensive greenhouse vegetable systems. Atmospheric Environment, 2019, 212, 183-193.	4.1	66
25	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.	4.8	19
26	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.	4.8	7
27	Unimodal Response of Soil Methane Consumption to Increasing Nitrogen Additions. Environmental Science & Technology, 2019, 53, 4150-4160.	10.0	33
28	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.	8.0	33
29	Emitting/Sensitizing Ions Spatially Separated Lanthanide Nanocrystals for Visualizing Tumors Simultaneously through Upward and Downward Conversion Near-Infrared II Luminescence In Vivo. Small, 2019, 15, e1905344.	10.0	41
30	Characterizing nitric oxide emissions from two typical alpine ecosystems. Journal of Environmental Sciences, 2019, 77, 312-322.	6.1	0
31	Annual methane emissions from degraded alpine wetlands in the eastern Tibetan Plateau. Science of the Total Environment, 2019, 657, 1323-1333.	8.0	21
32	Long-term grazing effects on soil-atmosphere exchanges of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O at different grasslands in Inner Mongolia: A soil core study. Ecological Indicators, 2019, 105, 316-328.	6.3	20
33	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.	8.0	18
34	Timely Visualization of the Collaterals Formed during Acute Ischemic Stroke with Fe <sub>3</sub> O <sub>4</sub> Nanoparticle-based MR Imaging Probe. Small, 2018, 14, e1800573.	10.0	24
35	Annual N <sub>2</sub> O emissions from conventionally grazed typical alpine grass meadows in the eastern Qinghai-Tibetan Plateau. Science of the Total Environment, 2018, 625, 885-899.	8.0	30
36	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.	5.3	34

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37	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.	4.8	29
38	Molecular mechanisms for delicately tuning the morphology and properties of Fe <sub>3</sub> O <sub>4</sub> nanoparticle clusters. <i>CrystEngComm</i> , 2018, 20, 2421-2429.	2.6	11
39	Dual-Ratiometric Target-Triggered Fluorescent Probe for Simultaneous Quantitative Visualization of Tumor Microenvironment Protease Activity and pH <i>in Vivo</i> . <i>Journal of the American Chemical Society</i> , 2018, 140, 211-218.	13.7	207
40	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.	8.0	21
41	Increasing grassland degradation stimulates the non-growing season CO <sub>2</sub> emissions from an alpine meadow on the Qinghai-Tibetan Plateau. <i>Environmental Science and Pollution Research</i> , 2018, 25, 26576-26591.	5.3	27
42	A Novel Histochemical Staining Approach for Rare-Earth-Based Nanoprobes. <i>Advanced Therapeutics</i> , 2018, 1, 1800005.	3.2	11
43	MRI Probes: Timely Visualization of the Collaterals Formed during Acute Ischemic Stroke with Fe <sub>3</sub> O <sub>4</sub> Nanoparticle-Based MR Imaging Probe (Small 23/2018). <i>Small</i> , 2018, 14, 1870108.	10.0	6
44	Formation and growth mechanism of flake-belt integrative Ag nanocrystals. <i>Micro and Nano Letters</i> , 2018, 13, 882-886.	1.3	0
45	Improving rice production sustainability by reducing water demand and greenhouse gas emissions with biodegradable films. <i>Scientific Reports</i> , 2017, 7, 39855.	3.3	55
46	Straw return reduces yield-scaled N <sub>2</sub> O 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.	8.0	79
47	Tumor Microenvironment-Triggered Aggregation of Antiphagocytosis-Resistant <sup>99m</sup> Tc-Labeled Fe <sub>3</sub> O <sub>4</sub> Nanoprobes for Enhanced Tumor Imaging <i>In Vivo</i> . <i>Advanced Materials</i> , 2017, 29, 1701095.	21.0	162
48	Reducing N <sub>2</sub> O and NO emissions while sustaining crop productivity in a Chinese vegetable-cereal double cropping system. <i>Environmental Pollution</i> , 2017, 231, 929-941.	7.5	44
49	White Light-Emitting Diodes Based on Individual Polymerized Carbon Nanodots. <i>Scientific Reports</i> , 2017, 7, 12146.	3.3	40
50	Urea deep placement reduces yield-scaled greenhouse gas (CH <sub>4</sub> and N <sub>2</sub> O) and NO emissions from a ground cover rice production system. <i>Scientific Reports</i> , 2017, 7, 11415.	3.3	36
51	Full-band UV shielding and highly daylight luminescent silane-functionalized graphene quantum dot nanofluids and their arbitrary polymerized hybrid gel glasses. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9879-9886.	5.5	68
52	Effects of grazing and climate variability on grassland ecosystem functions in Inner Mongolia: Synthesis of a 6-year grazing experiment. <i>Journal of Arid Environments</i> , 2016, 135, 50-63.	2.4	56
53	Nitric acid-mediated shape-controlled synthesis and catalytic activity of silver hierarchical microcrystals. <i>RSC Advances</i> , 2016, 6, 21511-21516.	3.6	13
54	Detection of early primary colorectal cancer with upconversion luminescent NP-based molecular probes. <i>Nanoscale</i> , 2016, 8, 12579-12587.	5.6	36

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55	Protease-Activated Ratiometric Fluorescent Probe for pH Mapping of Malignant Tumors. ACS Nano, 2015, 9, 3199-3205.	14.6	102
56	Flow Synthesis of Biocompatible Fe <sub>3</sub> O <sub>4</sub> Nanoparticles: Insight into the Effects of Residence Time, Fluid Velocity, and Tube Reactor Dimension on Particle Size Distribution. Chemistry of Materials, 2015, 27, 1299-1305.	6.7	64
57	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.	5.3	55
58	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. Agricultural Systems, 2015, 140, 1-10.	6.1	32
59	Chemical Spacer Design for Engineering the Relaxometric Properties of Core–Shell Structured Rare Earth Nanoparticles. Chemistry of Materials, 2015, 27, 7918-7925.	6.7	24
60	Annual nitric and nitrous oxide fluxes from Chinese subtropical plastic greenhouse and conventional vegetable cultivations. Environmental Pollution, 2015, 196, 89-97.	7.5	44
61	Are Rare-Earth Nanoparticles Suitable for In Vivo Applications?. Advanced Materials, 2014, 26, 6922-6932.	21.0	166
62	Nanocrystals: Restructuring and Remodeling of NaREF <sub>4</sub> Nanocrystals by Electron Irradiation (Small 22/2014). Small, 2014, 10, 4800-4800.	10.0	0
63	Upconversion luminescence nanoparticles-based lateral flow immunochromatographic assay for cephalexin detection. Journal of Materials Chemistry C, 2014, 2, 9637-9642.	5.5	48
64	Magnetically engineered Cd-free quantum dots as dual-modality probes for fluorescence/magnetic resonance imaging of tumors. Biomaterials, 2014, 35, 1608-1617.	11.4	110
65	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.	8.8	45
66	Three-year measurements of nitrous oxide emissions from cotton and wheat–maize rotational cropping systems. Atmospheric Environment, 2014, 96, 201-208.	4.1	24
67	Nanoparticles: Are Rare-Earth Nanoparticles Suitable for In Vivo Applications? (Adv. Mater. 40/2014). Advanced Materials, 2014, 26, 6921-6921.	21.0	1
68	Magnetic/Upconversion Fluorescent NaGdF <sub>4</sub> :Yb,Er Nanoparticle-Based Dual-Modal Molecular Probes for Imaging Tiny Tumors <i>in Vivo</i> . ACS Nano, 2013, 7, 7227-7240.	14.6	336
69	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.	4.8	97
70	Preparation and conductive mechanism of copper nanoparticles ink. Journal of Materials Science: Materials in Electronics, 2013, 24, 5175-5182.	2.2	17
71	Three-arm star compounds composed of 1,3,5-tri(azobenzeneethynyl)benzene cores and flexible PEO arms: synthesis, optical functions, hybrid Ormosil gel glasses. Journal of Materials Chemistry C, 2013, 1, 1791.	5.5	23
72	Carbon dioxide emission from temperate semiarid steppe during the non-growing season. Atmospheric Environment, 2013, 64, 141-149.	4.1	27

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73	Paper-based nanosilver conductive ink. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 628-634.	2.2	26
74	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.	3.7	44
75	Characteristics of multiple-year nitrous oxide emissions from conventional vegetable fields in southeastern China. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	50
76	Measurements of Biosphere-Atmosphere Exchange of CH <sub>4</sub> in Terrestrial Ecosystems. <i>Methods in Enzymology</i> , 2011, 495, 271-287.	1.0	23
77	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.	9.5	103
78	Lateral Flow Immunochromatographic Assay for Sensitive Pesticide Detection by Using Fe <sub>3</sub> O <sub>4</sub> Nanoparticle Aggregates as Color Reagents. <i>Analytical Chemistry</i> , 2011, 83, 6778-6784.	6.5	216
79	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.	5.3	195
80	A process-based model of N <sub>2</sub> O emission from a rice-winter wheat rotation agro-ecosystem: Structure, validation and sensitivity. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 137-150.	4.3	7
81	Effects of nitrogen fertilizer on CH <sub>4</sub> emission from rice fields: multi-site field observations. <i>Plant and Soil</i> , 2010, 326, 393-401.	3.7	89
82	Nitrous oxide and nitric oxide emissions from an irrigated cotton field in Northern China. <i>Plant and Soil</i> , 2010, 332, 123-134.	3.7	108
83	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.	3.7	21
84	Annual methane uptake by typical semiarid steppe in Inner Mongolia. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
85	Effects of tillage during the nonwaterlogged period on nitrous oxide and nitric oxide emissions in typical Chinese rice-wheat rotation ecosystems. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
86	Comparison of manual and automated chambers for field measurements of N <sub>2</sub> O, CH <sub>4</sub> , CO <sub>2</sub> fluxes from cultivated land. <i>Atmospheric Environment</i> , 2009, 43, 1888-1896.	4.1	73
87	Growing season methane budget of an Inner Mongolian steppe. <i>Atmospheric Environment</i> , 2009, 43, 3086-3095.	4.1	28
88	Dinitrogen fixation by biological soil crusts in an Inner Mongolian steppe. <i>Biology and Fertility of Soils</i> , 2009, 45, 679-690.	4.3	28
89	Sheepfolds as "hotspots" of nitric oxide (NO) emission in an Inner Mongolian steppe. <i>Agriculture, Ecosystems and Environment</i> , 2009, 134, 136-142.	5.3	12
90	Description and application of a model for simulating regional nitrogen cycling and calculating nitrogen flux. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 181-201.	4.3	11

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91	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.	4.3	32
92	Fabrication of Micrometer-Scale Anatase-Phase TiO <sub>2</sub> Congeries Assembled with Hollow Spheres. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2067-2070.	3.8	10
93	Quantifying net ecosystem carbon dioxide exchange of a short-plant cropland with intermittent chamber measurements. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	49
94	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.	4.1	88
95	Microbial N Turnover and N-Oxide (N <sub>2</sub> O/NO/NO <sub>2</sub> ) Fluxes in Semi-arid Grassland of Inner Mongolia. <i>Ecosystems</i> , 2007, 10, 623-634.	3.4	67
96	N <sub>2</sub> O, CH <sub>4</sub> and CO <sub>2</sub> emissions from seasonal tropical rainforests and a rubber plantation in Southwest China. <i>Plant and Soil</i> , 2006, 289, 335-353.	3.7	136
97	Photo-induced DNA cleavage in self-assembly multilayer films. <i>New Journal of Chemistry</i> , 2002, 26, 617-620.	2.8	16
98	Preparation, stability and two-dimensional ordered arrangement of gold nanoparticles capped by surfactants with different chain lengths. <i>Science in China Series B: Chemistry</i> , 2002, 45, 358-364.	0.8	4
99	Investigation on composite Au /TiO <sub>2</sub> nanoparticles (I). <i>Science Bulletin</i> , 1998, 43, 210-213.	1.7	2