Chunyan Liu

List of Publications by Year
in descending order

99 papers	4,269 citations	117625 34 h-index	118850 62 g-index
99 all docs	99 docs citations	99 times ranked	5742 citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic/Upconversion Fluorescent NaGdF$_4$:Yb,Er Nanoparticle-Based Dual-Modal Molecular Probes for Imaging Tiny Tumors *in Vivo*. ACS Nano, 2013, 7, 7227-7240.	14.6	336
2	Lateral Flow Immunochromatographic Assay for Sensitive Pesticide Detection by Using Fe_3O_4 Nanoparticle Aggregates as Color Reagents. Analytical Chemistry, 2011, 83, 6778-6784.	6.5	216
3	Dual-Ratiometric Target-Triggered Fluorescent Probe for Simultaneous Quantitative Visualization of Tumor Microenvironment Protease Activity and pH *in Vivo*. Journal of the American Chemical Society, 2018, 140, 211-218.	13.7	207
4	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.	5.3	195
5	Are Rare–Earth Nanoparticles Suitable for In Vivo Applications?. Advanced Materials, 2014, 26, 6922-6932.	21.0	166
6	Tumor Microenvironment–Triggered Aggregation of Antiphagocytosis ^{99m}Tc–Labeled Fe_3O_4 Nanoprobes for Enhanced Tumor Imaging In Vivo. Advanced Materials, 2017, 29, 1701095.	21.0	162
7	N2O, CH4 and CO2 emissions from seasonal tropical rainforests and a rubber plantation in Southwest China. Plant and Soil, 2006, 289, 335-353.	3.7	136
8	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
9	Nitrous oxide and nitric oxide emissions from an irrigated cotton field in Northern China. Plant and Soil, 2010, 332, 123-134.	3.7	108
10	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.	9.5	103
11	Protease-Activated Ratiometric Fluorescent Probe for pH Mapping of Malignant Tumors. ACS Nano, 2015, 9, 3199-3205.	14.6	102
12	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
13	Effects of nitrogen fertilizer on CH4 emission from rice fields: multi-site field observations. Plant and Soil, 2010, 326, 393-401.	3.7	89
14	Winter-grazing reduces methane uptake by soils of a typical semi-arid steppe in Inner Mongolia, China. Atmospheric Environment, 2007, 41, 5948-5958.	4.1	88
15	Straw return reduces yield-scaled N 2 O 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.	8.0	79
16	Comparison of manual and automated chambers for field measurements of N2O, CH4, CO2 fluxes from cultivated land. Atmospheric Environment, 2009, 43, 1888-1896.	4.1	73
17	Full-band UV shielding and highly daylight luminescent silane-functionalized graphene quantum dot nanofluids and their arbitrary polymerized hybrid gel glasses. Journal of Materials Chemistry C, 2016, 4, 9879-9886.	5.5	68
18	Microbial N Turnover and N-Oxide (N2O/NO/NO2) Fluxes in Semi-arid Grassland of Inner Mongolia. Ecosystems, 2007, 10, 623-634.	3.4	67

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19	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.	4.1	66
20	Flow Synthesis of Biocompatible Fe_3O_4 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
21	Effects of grazing and climate variability on grassland ecosystem functions in Inner Mongolia: Synthesis of a 6-year grazing experiment. Journal of Arid Environments, 2016, 135, 50-63.	2.4	56
22	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
23	Improving rice production sustainability by reducing water demand and greenhouse gas emissions with biodegradable films. Scientific Reports, 2017, 7, 39855.	3.3	55
24	Characteristics of multiple-year nitrous oxide emissions from conventional vegetable fields in southeastern China. Journal of Geophysical Research, 2011, 116, .	3.3	50
25	Quantifying net ecosystem carbon dioxide exchange of a short‐plant cropland with intermittent chamber measurements. Global Biogeochemical Cycles, 2008, 22, .	4.9	49
26	Upconversion luminescence nanoparticles-based lateral flow immunochromatographic assay for cephalexin detection. Journal of Materials Chemistry C, 2014, 2, 9637-9642.	5.5	48
27	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
28	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.	3.7	44
29	Annual nitric and nitrous oxide fluxes from Chinese subtropical plastic greenhouse and conventional vegetable cultivations. Environmental Pollution, 2015, 196, 89-97.	7.5	44
30	Reducing N2O and NO emissions while sustaining crop productivity in a Chinese vegetable-cereal double cropping system. Environmental Pollution, 2017, 231, 929-941.	7.5	44
31	Emitting/Sensitizing Ions Spatially Separated Lanthanide Nanocrystals for Visualizing Tumors Simultaneously through Up‐and Down‐Conversion Near‐Infrared II Luminescence In Vivo. Small, 2019, 15, e1905344.	10.0	41
32	White Light-Emitting Diodes Based on Individual Polymerized Carbon Nanodots. Scientific Reports, 2017, 7, 12146.	3.3	40
33	Detection of early primary colorectal cancer with upconversion luminescent NP-based molecular probes. Nanoscale, 2016, 8, 12579-12587.	5.6	36
34	Urea deep placement reduces yield-scaled greenhouse gas (CH4 and N2O) and NO emissions from a ground cover rice production system. Scientific Reports, 2017, 7, 11415.	3.3	36
35	Revisiting the Concentration Observations and Source Apportionment of Atmospheric Ammonia. Advances in Atmospheric Sciences, 2020, 37, 933-938.	4.3	36
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	Unimodal Response of Soil Methane Consumption to Increasing Nitrogen Additions. Environmental Science & Technology, 2019, 53, 4150-4160.	10.0	33
38	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
39	Effects of irrigation on nitrous oxide, methane and carbon dioxide fluxes in an Inner Mongolian steppe. Advances in Atmospheric Sciences, 2008, 25, 748-756.	4.3	32
40	Comparison of the DNDC, LandscapeDNDC and IAP-N-GAS models for simulating nitrous oxide and nitric oxide emissions from the winter wheatâ€"summer maize rotation system. Agricultural Systems, 2015, 140, 1-10.	6.1	32
41	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
42	Annual N2O emissions from conventionally grazed typical alpine grass meadows in the eastern Qinghaiâ€"Tibetan Plateau. Science of the Total Environment, 2018, 625, 885-899.	8.0	30
43	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.	4.8	29
44	A review of the importance of mineral nitrogen cycling in the plant-soil-microbe system of permafrost-affected soilsâ€"changing the paradigm. Environmental Research Letters, 2022, 17, 013004.	5.2	29
45	Growing season methane budget of an Inner Mongolian steppe. Atmospheric Environment, 2009, 43, 3086-3095.	4.1	28
46	Dinitrogen fixation by biological soil crusts in an Inner Mongolian steppe. Biology and Fertility of Soils, 2009, 45, 679-690.	4.3	28
47	Benefits of integrated nutrient management on N2O and NO mitigations in water-saving ground cover rice production systems. Science of the Total Environment, 2019, 646, 1155-1163.	8.0	28
48	Carbon dioxide emission from temperate semiarid steppe during the non-growing season. Atmospheric Environment, 2013, 64, 141-149.	4.1	27
49	Increasing grassland degradation stimulates the non-growing season CO2 emissions from an alpine meadow on the Qinghaiâ€"Tibetan Plateau. Environmental Science and Pollution Research, 2018, 25, 26576-26591.	5.3	27
50	Paper-based nanosilver conductive ink. Journal of Materials Science: Materials in Electronics, 2013, 24, 628-634.	2.2	26
51	Three-year measurements of nitrous oxide emissions from cotton and wheatâ€"maize rotational cropping systems. Atmospheric Environment, 2014, 96, 201-208.	4.1	24
52	Chemical Spacer Design for Engineering the Relaxometric Properties of Coreâ€"Shell Structured Rare Earth Nanoparticles. Chemistry of Materials, 2015, 27, 7918-7925.	6.7	24
53	Timely Visualization of the Collaterals Formed during Acute Ischemic Stroke with Fe_3O_4 Nanoparticleâ€"based MR Imaging Probe. Small, 2018, 14, e1800573.	10.0	24
54	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

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55	Annual methane uptake by typical semiarid steppe in Inner Mongolia. Journal of Geophysical Research, 2010, 115, .	3.3	23
56	Measurements of Biosphere–Atmosphere Exchange of CH4 in Terrestrial Ecosystems. Methods in Enzymology, 2011, 495, 271-287.	1.0	23
57	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
58	Tea-planted soils as global hotspots for N_2O emissions from croplands. Environmental Research Letters, 2020, 15, 104018.	5.2	23
59	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.	3.7	21
60	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.	8.0	21
61	Annual methane emissions from degraded alpine wetlands in the eastern Tibetan Plateau. Science of the Total Environment, 2019, 657, 1323-1333.	8.0	21
62	Doping Lanthanide Nanocrystals With Non-lanthanide Ions to Simultaneously Enhance Up- and Down-Conversion Luminescence. Frontiers in Chemistry, 2020, 8, 832.	3.6	21
63	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.	6.3	20
64	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
65	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.	6.3	19
66	Elevated atmospheric CO_2 reduces yield–scaled N_2O fluxes from subtropical rice systems: Six site–years field experiments. Global Change Biology, 2021, 27, 327-339.	9.5	19
67	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
68	Preparation and conductive mechanism of copper nanoparticles ink. Journal of Materials Science: Materials in Electronics, 2013, 24, 5175-5182.	2.2	17
69	Dinitrogen (N2) pulse emissions during freeze-thaw cycles from montane grassland soil. Biology and Fertility of Soils, 2020, 56, 959-972.	4.3	17
70	Photo-induced DNA cleavage in self-assembly multilayer films. New Journal of Chemistry, 2002, 26, 617-620.	2.8	16
71	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, .	3.3	13
72	Nitric acid-mediated shape-controlled synthesis and catalytic activity of silver hierarchical microcrystals. RSC Advances, 2016, 6, 21511-21516.	3.6	13

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73	Sheepfolds as "hotspots" of nitric oxide (NO) emission in an Inner Mongolian steppe. Agriculture, Ecosystems and Environment, 2009, 134, 136-142.	5.3	12
74	Description and application of a model for simulating regional nitrogen cycling and calculating nitrogen flux. Advances in Atmospheric Sciences, 2008, 25, 181-201.	4.3	11
75	Molecular mechanisms for delicately tuning the morphology and properties of Fe_3O_4 nanoparticle clusters. CrystEngComm, 2018, 20, 2421-2429.	2.6	11
76	A Novel Histochemical Staining Approach for Rare‐Earth‐Based Nanoprobes. Advanced Therapeutics, 2018, 1, 1800005.	3.2	11
77	Using a modified DNDC biogeochemical model to optimize field management of a multi-crop (cotton,) Tj ETQq1 1 0.784314 rgBT /Over	3.3	11
78	Less intensive nitrate leaching from Phaeozems cultivated with maize generally occurs in northeastern China. Agriculture, Ecosystems and Environment, 2021, 310, 107303.	5.3	11
79	Fabrication of Micrometer-Scale Anatase-Phase TiO2Congeries Assembled with Hollow Spheres. Journal of the American Ceramic Society, 2008, 91, 2067-2070.	3.8	10
80	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. Atmospheric Chemistry and Physics, 2020, 20, 6903-6919.	4.9	10
81	Ammonia should be considered in field experiments mimicking nitrogen deposition. Atmospheric and Oceanic Science Letters, 2020, 13, 248-251.	1.3	9
82	Activable Multi-Modal Nanoprobes for Imaging Diagnosis and Therapy of Tumors. Frontiers in Chemistry, 2020, 8, 572471.	3.6	9
83	Alder-induced stimulation of soil gross nitrogen turnover in a permafrost-affected peatland of Northeast China. Soil Biology and Biochemistry, 2022, 172, 108757.	8.8	9
84	Continuous Flow Synthesis of Persistent Luminescent Chromium-Doped Zinc Gallate Nanoparticles. Journal of Physical Chemistry Letters, 2021, 12, 7067-7075.	4.6	8
85	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.	4.3	7
86	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
87	The Forgotten Nutrient—The Role of Nitrogen in Permafrost Soils of Northern China. Advances in Atmospheric Sciences, 2020, 37, 793-799.	4.3	7
88	MRI Probes: Timely Visualization of the Collaterals Formed during Acute Ischemic Stroke with Fe_3O_4 Nanoparticle‐based MR Imaging Probe (Small 23/2018). Small, 2018, 14, 1870108.	10.0	6
89	Annual greenhouse gas emissions from sheepfolds and cattle sheds. Soil Use and Management, 2022, 38, 369-380.	4.9	6
90	Preparation, stability and two-dimensional ordered arrangement of gold nanoparticles capped by surfactants with different chain lengths. Science in China Series B: Chemistry, 2002, 45, 358-364.	0.8	4

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91	Attempt to correct grassland N2O fluxes biased by the DN-based opaque static chamber measurement. Atmospheric Environment, 2021, 264, 118687.	4.1	3
92	Investigation on composite Au /TiO2 nanoparticles (I). Science Bulletin, 1998, 43, 210-213.	1.7	2
93	Update of a biogeochemical model with process-based algorithms to predict ammonia volatilization from fertilized cultivated uplands and rice paddy fields. Biogeosciences, 2022, 19, 3001-3019.	3.3	2
94	Nanoparticles: Are Rare-Earth Nanoparticles Suitable for In Vivo Applications? (Adv. Mater. 40/2014). Advanced Materials, 2014, 26, 6921-6921.	21.0	1
95	How to Improve Cumulative Methane and Nitrous Oxide Flux Estimations of the Non–Steady–State Chamber Method?. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	1
96	Nanocrystals: Restructuring and Remodeling of NaREF$_4$ Nanocrystals by Electron Irradiation (Small 22/2014). Small, 2014, 10, 4800-4800.	10.0	0
97	Formation and growth mechanism of flake–belt integrative Ag nanocrystals. Micro and Nano Letters, 2018, 13, 882-886.	1.3	0
98	Characterizing nitric oxide emissions from two typical alpine ecosystems. Journal of Environmental Sciences, 2019, 77, 312-322.	6.1	0
99	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.	3.3	0