

Bo Zhu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6020470/publications.pdf>

Version: 2024-02-01

108
papers

3,223
citations

159585
30
h-index

182427
51
g-index

109
all docs

109
docs citations

109
times ranked

2952
citing authors

#	ARTICLE	IF	CITATIONS
1	Stimulation of N ₂ O emission by manure application to agricultural soils may largely offset carbon benefits: a global meta-analysis. <i>Global Change Biology</i> , 2017, 23, 4068-4083.	9.5	222
2	Measurements of Nitrate Leaching from a Hillslope Cropland in the Central Sichuan Basin, China. <i>Soil Science Society of America Journal</i> , 2009, 73, 1419-1426.	2.2	171
3	Mechanisms of soil N dynamics following long-term application of organic fertilizers to subtropical rain-fed purple soil in China. <i>Soil Biology and Biochemistry</i> , 2015, 91, 222-231.	8.8	162
4	Removal of non-point source pollutants from domestic sewage and agricultural runoff by vegetated drainage ditches (VDDs): Design, mechanism, management strategies, and future directions. <i>Science of the Total Environment</i> , 2018, 639, 742-759.	8.0	128
5	Sustaining crop productivity while reducing environmental nitrogen losses in the subtropical wheat-maize cropping systems: A comprehensive case study of nitrogen cycling and balance. <i>Agriculture, Ecosystems and Environment</i> , 2016, 231, 1-14.	5.3	103
6	Effects of nitrogen fertilizer on CH ₄ emission from rice fields: multi-site field observations. <i>Plant and Soil</i> , 2010, 326, 393-401.	3.7	89
7	A review of rapid transport of pesticides from sloping farmland to surface waters: Processes and mitigation strategies. <i>Journal of Environmental Sciences</i> , 2012, 24, 351-361.	6.1	88
8	N ₂ O and CH ₄ Emissions, and NO ₃ ⁻ Leaching on a Crop-Yield Basis from a Subtropical Rain-fed Wheat-Maize Rotation in Response to Different Types of Nitrogen Fertilizer. <i>Ecosystems</i> , 2014, 17, 286-301.	3.4	86
9	Diversity and abundance of soil fauna as influenced by long-term fertilization in cropland of purple soil, China. <i>Soil and Tillage Research</i> , 2015, 146, 39-46.	5.6	74
10	Nutrient Release from Weathering of Purplish Rocks in the Sichuan Basin, China. <i>Pedosphere</i> , 2008, 18, 257-264.	4.0	69
11	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.	5.3	69
12	Long-term field measurements of annual methane and nitrous oxide emissions from a Chinese subtropical wheat-rice rotation system. <i>Soil Biology and Biochemistry</i> , 2017, 115, 21-34.	8.8	64
13	Bulk deposition of organic and inorganic nitrogen in southwest China from 2008 to 2013. <i>Environmental Pollution</i> , 2017, 227, 157-166.	7.5	63
14	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.	3.7	60
15	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.	3.7	56
16	Wet and dry nitrogen deposition in the central Sichuan Basin of China. <i>Atmospheric Environment</i> , 2016, 143, 39-50.	4.1	56
17	Coupled effects of biogeochemical and hydrological processes on C, N, and P export during extreme rainfall events in a purple soil watershed in southwestern China. <i>Journal of Hydrology</i> , 2014, 511, 692-702.	5.4	55
18	Effects of vegetation cover on phosphorus loss from a hillslope cropland of purple soil under simulated rainfall: a case study in China. <i>Nutrient Cycling in Agroecosystems</i> , 2009, 85, 263-273.	2.2	54

#	ARTICLE	IF	CITATIONS
19	Nitrate leaching, direct and indirect nitrous oxide fluxes from sloping cropland in the purple soil area, southwestern China. <i>Environmental Pollution</i> , 2012, 162, 361-368.	7.5	53
20	Phosphorus fractions and release potential of ditch sediments from different land uses in a small catchment of the upper Yangtze River. <i>Journal of Soils and Sediments</i> , 2012, 12, 278-290.	3.0	53
21	Seasonal change of non-point source pollution-induced bioavailable phosphorus loss: A case study of Southwestern China. <i>Journal of Hydrology</i> , 2012, 420-421, 373-379.	5.4	51
22	Nitrate loss via overland flow and interflow from a sloped farmland in the hilly area of purple soil, China. <i>Nutrient Cycling in Agroecosystems</i> , 2011, 90, 309-319.	2.2	47
23	A three-year experiment of annual methane and nitrous oxide emissions from the subtropical permanently flooded rice paddy fields of China: Emission factor, temperature sensitivity and fertilizer nitrogen effect. <i>Agricultural and Forest Meteorology</i> , 2018, 250-251, 299-307.	4.8	47
24	Modeling nitrogen loadings from agricultural soils in southwest China with modified DNDC. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	46
25	Importance of matching soil N transformations, crop N form preference, and climate to enhance crop yield and reducing N loss. <i>Science of the Total Environment</i> , 2019, 657, 1265-1273.	8.0	44
26	Plant soaking decomposition as well as nitrogen and phosphorous release in the water-level fluctuation zone of the Three Gorges Reservoir. <i>Science of the Total Environment</i> , 2017, 592, 527-534.	8.0	43
27	Ecological ditch system for nutrient removal of rural domestic sewage in the hilly area of the central Sichuan Basin, China. <i>Journal of Hydrology</i> , 2019, 570, 839-849.	5.4	39
28	Phosphorus and carbon competitive sorption-desorption and associated non-point loss respond to natural rainfall events. <i>Journal of Hydrology</i> , 2014, 517, 447-457.	5.4	35
29	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.	4.3	34
30	Comparison of the DNDC, LandscapeDNDC and IAP-N-GAS models for simulating nitrous oxide and nitric oxide emissions from the winter wheat-spring maize rotation system. <i>Agricultural Systems</i> , 2015, 140, 1-10.	6.1	32
31	Non-point-source nitrogen and phosphorus loadings from a small watershed in the Three Gorges Reservoir area. <i>Journal of Mountain Science</i> , 2012, 9, 10-15.	2.0	31
32	Rainfall and tillage impacts on soil erosion of sloping cropland with subtropical monsoon climate – A case study in hilly purple soil area, China. <i>Journal of Mountain Science</i> , 2015, 12, 134-144.	2.0	30
33	Bioavailable phosphorus transport from a hillslope cropland of purple soil under natural and simulated rainfall. <i>Environmental Monitoring and Assessment</i> , 2010, 171, 539-550.	2.7	29
34	Effects of contour hedgerow intercropping on nutrient losses from the sloping farmland in the Three Gorges Area, China. <i>Journal of Mountain Science</i> , 2012, 9, 105-114.	2.0	28
35	Evaluation of the effectiveness of N process inhibitors in paddy rice via a ¹⁵ N tracing approach. <i>Soil Biology and Biochemistry</i> , 2020, 147, 107855.	8.8	28
36	Tempo-spatial analysis of water quality in tributary bays of the Three Gorges Reservoir region (China). <i>Environmental Science and Pollution Research</i> , 2015, 22, 16709-16720.	5.3	27

#	ARTICLE	IF	CITATIONS
37	Long-term impact of primary domestic sewage on metal/lloid accumulation in drainage ditch sediments, plants and water: Implications for phytoremediation and restoration. <i>Science of the Total Environment</i> , 2017, 581-582, 773-781.	8.0	26
38	The characteristics of soil N transformations regulate the composition of hydrologic N export from terrestrial ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1409-1419.	3.0	25
39	Land use change effects on ecosystem carbon budget in the Sichuan Basin of Southwest China: Conversion of cropland to forest ecosystem. <i>Science of the Total Environment</i> , 2017, 609, 556-562.	8.0	25
40	Soil N ₂ O and NO _x emissions are directly linked with N-cycling enzymatic activities. <i>Applied Soil Ecology</i> , 2019, 139, 15-24.	4.3	25
41	Growth characteristics and nutrient removal capability of eco-ditch plants in mesocosm sediment receiving primary domestic wastewater. <i>Environmental Science and Pollution Research</i> , 2017, 24, 23926-23938.	5.3	22
42	Subsurface flow processes in sloping cropland of purple soil. <i>Journal of Mountain Science</i> , 2012, 9, 1-9.	2.0	21
43	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.	3.7	21
44	Seasonal variations in indirect N ₂ O emissions from an agricultural headwater ditch. <i>Biology and Fertility of Soils</i> , 2017, 53, 651-662.	4.3	21
45	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
46	Phosphorus loss through surface runoff and leaching in response to the long-term application of different organic amendments on sloping croplands. <i>Journal of Soils and Sediments</i> , 2020, 20, 3459-3471.	3.0	21
47	Forms and Fluxes of Soil Organic Carbon Transport via Overland Flow, Interflow, and Soil Erosion. <i>Soil Science Society of America Journal</i> , 2016, 80, 1011-1019.	2.2	20
48	Distribution and risk assessment of metals and arsenic contamination in man-made ditch sediments with different land use types. <i>Environmental Science and Pollution Research</i> , 2016, 23, 24808-24823.	5.3	20
49	Effects of organic amendment applications on nitrogen and phosphorus losses from sloping cropland in the upper Yangtze River. <i>Agriculture, Ecosystems and Environment</i> , 2020, 302, 107086.	5.3	19
50	Nutrients Recovery during Vermicomposting of Cow Dung, Pig Manure, and Biochar for Agricultural Sustainability with Gases Emissions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8956.	2.5	19
51	Uptake and Release of Sequestered Nutrient in Subtropical Monsoon Ecological Ditch Plant Species. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	18
52	Assessing the influence of different plant species in drainage ditches on mitigation of non-point source pollutants (N, P, and sediments) in the Purple Sichuan Basin. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 267.	2.7	18
53	Indirect N ₂ O emissions with seasonal variations from an agricultural drainage ditch mainly receiving interflow water. <i>Environmental Pollution</i> , 2018, 242, 480-491.	7.5	17
54	Nutrient dynamics and retention in a vegetated drainage ditch receiving nutrient-rich sewage at low temperatures. <i>Science of the Total Environment</i> , 2020, 741, 140268.	8.0	16

#	ARTICLE	IF	CITATIONS
55	Spatial and temporal patterns of soil nitrogen distribution under different land uses in a watershed in the hilly area of purple soil, China. <i>Journal of Mountain Science</i> , 2013, 10, 410-417.	2.0	15
56	Dissolved organic carbon loss fluxes through runoff and sediment on sloping upland of purple soil in the Sichuan Basin. <i>Nutrient Cycling in Agroecosystems</i> , 2014, 98, 125-135.	2.2	15
57	Nutrient removal in a trapezoidal vegetated drainage ditch used to treat primary domestic sewage in a small catchment of the upper Yangtze River. <i>Water and Environment Journal</i> , 2017, 31, 72-79.	2.2	15
58	Seasonal N ₂ O emissions respond differently to environmental and microbial factors after fertilization in wheat–maize agroecosystem. <i>Nutrient Cycling in Agroecosystems</i> , 2018, 112, 215-229.	2.2	15
59	Conversion of winter flooded rice paddy planting to rice-wheat rotation decreased methane emissions during the rice-growing seasons. <i>Soil and Tillage Research</i> , 2020, 198, 104490.	5.6	15
60	Dissecting soil CO ₂ fluxes from a subtropical forest in China by integrating field measurements with a modeling approach. <i>Geoderma</i> , 2011, 161, 88-94.	5.1	14
61	Assessment of soil organic carbon stock in the upper Yangtze River basin. <i>Journal of Mountain Science</i> , 2013, 10, 866-872.	2.0	14
62	Sprinkler-based rainfall simulation experiments to assess nitrogen and phosphorus losses from a hillslope cropland of purple soil in China. <i>Sustainability of Water Quality and Ecology</i> , 2013, 1-2, 40-47.	2.0	14
63	Estimation of the removal efficiency of heavy metals and nutrients from ecological drainage ditches treating town sewage during dry and wet seasons. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 434.	2.7	14
64	Ambient concentrations and deposition rates of selected reactive nitrogen species and their contribution to PM _{2.5} aerosols at three locations with contrasting land use in southwest China. <i>Environmental Pollution</i> , 2018, 233, 1164-1176.	7.5	14
65	Afforestation and deforestation enhanced soil CH ₄ uptake in a subtropical agricultural landscape: Evidence from multi-year and multi-site field experiments. <i>Science of the Total Environment</i> , 2019, 662, 313-323.	8.0	14
66	Nutrient loss from slope cropland to water in the riparian zone of the Three Gorges Reservoir: Process, pathway, and flux. <i>Agriculture, Ecosystems and Environment</i> , 2020, 302, 107108.	5.3	14
67	Impact of soil thickness on productivity and nitrate leaching from sloping cropland in the upper Yangtze River Basin. <i>Agriculture, Ecosystems and Environment</i> , 2021, 311, 107266.	5.3	14
68	Effects of Nitrogen Fertilization on Upland Rice based on Pot Experiments. <i>Communications in Soil Science and Plant Analysis</i> , 2008, 39, 1733-1749.	1.4	13
69	The influence of N-fertilization regimes on N ₂ O emissions and denitrification in rain-fed cropland during the rainy season. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2545-2553.	3.5	13
70	The nitrogen loss flushing mechanism in sloping farmlands of shallow Entisol in southwestern China: a study of the water source effect. <i>Arabian Journal of Geosciences</i> , 2015, 8, 10325-10337.	1.3	13
71	Substantial N ₂ O emission during the initial period of the wheat season due to the conversion of winter-flooded paddy to rice-wheat rotation. <i>Atmospheric Environment</i> , 2017, 170, 269-278.	4.1	13
72	Effects of slope gradient on runoff from bare-fallow purple soil in China under natural rainfall conditions. <i>Journal of Mountain Science</i> , 2018, 15, 738-751.	2.0	13

#	ARTICLE	IF	CITATIONS
73	The impact of atmospheric N deposition and N fertilizer type on soil nitric oxide and nitrous oxide fluxes from agricultural and forest Eutric Regosols. <i>Biology and Fertility of Soils</i> , 2020, 56, 1077-1090.	4.3	13
74	Metal Distribution and Contamination Assessment in Drainage Ditch Water in the Main Rice/Vegetable Area of Sichuan Hilly Basin. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016, 96, 248-253.	2.7	12
75	Effects of afforestation on soil CH ₄ and N ₂ O fluxes in a subtropical karst landscape. <i>Science of the Total Environment</i> , 2020, 705, 135974.	8.0	12
76	Linkage of N ₂ O emissions to the abundance of soil ammonia oxidizers and denitrifiers in purple soil under long-term fertilization. <i>Soil Science and Plant Nutrition</i> , 2015, 61, 799-807.	1.9	10
77	Assessing Nutrient, Biomass, and Sediment Transport of Drainage Ditches in the Three Gorges Reservoir Area. <i>Clean - Soil, Air, Water</i> , 2017, 45, .	1.1	10
78	Seasonal variations of groundwater recharge in a small subtropical agroforestry watershed with horizontal sedimentary bedrock. <i>Journal of Hydrology</i> , 2021, 596, 125703.	5.4	10
79	How do soil organic carbon pool, stock and their stability respond to crop residue incorporation in subtropical calcareous agricultural soils?. <i>Agriculture, Ecosystems and Environment</i> , 2022, 332, 107927.	5.3	10
80	Nutrient distribution and risk assessment in drainage ditches with different surrounding land uses. <i>Nutrient Cycling in Agroecosystems</i> , 2017, 107, 381-394.	2.2	9
81	Effects of afforestation on soil nitrous oxide emissions in a subtropical montane agricultural landscape: A 3-year field experiment. <i>Agricultural and Forest Meteorology</i> , 2019, 266-267, 221-230.	4.8	9
82	Arbuscular mycorrhizal fungal communities of topsoil and subsoil of an annual maize-wheat rotation after 15-years of differential mineral and organic fertilization. <i>Agriculture, Ecosystems and Environment</i> , 2021, 315, 107442.	5.3	9
83	Soil type affects not only magnitude but also thermal sensitivity of N ₂ O emissions in subtropical mountain area. <i>Science of the Total Environment</i> , 2021, 797, 149127.	8.0	9
84	Stormwater runoff pollution in a rural township in the hilly area of the central Sichuan Basin, China. <i>Journal of Mountain Science</i> , 2012, 9, 16-26.	2.0	8
85	Effectiveness of Vegetated Drainage Ditches for Domestic Sewage Effluent Mitigation. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017, 98, 682-689.	2.7	8
86	Hydrological Processes and Sediment Yields from Hillslope Croplands of Regosol under Different Slope Gradients. <i>Soil Science Society of America Journal</i> , 2017, 81, 1517-1525.	2.2	8
87	Soil gross nitrogen transformations in forestland and cropland of Regosols. <i>Scientific Reports</i> , 2021, 11, 223.	3.3	7
88	Methane emission from rice cultivation regulated by soil hydrothermal condition and available carbon and nitrogen under a rice-wheat rotation system. <i>Plant and Soil</i> , 2022, 480, 283-294.	3.7	7
89	Simulating denitrification and nitrous oxide emissions from subtropical maize-winter wheat rotations in Southwestern China using NOE v2 model. <i>Agriculture, Ecosystems and Environment</i> , 2016, 230, 127-138.	5.3	6
90	How Tillage and Fertilization Influence Soil N ₂ O Emissions after Forestland Conversion to Cropland. <i>Sustainability</i> , 2020, 12, 7947.	3.2	6

#	ARTICLE	IF	CITATIONS
91	Characterizing Greenhouse Gas Emissions and Global Warming Potential of Wheat-Maize Cropping Systems in Response to Organic Amendments in Eutric Regosols, China. <i>Atmosphere</i> , 2020, 11, 614.	2.3	6
92	Effect of Biochar and Straw Application on Nitrous Oxide and Methane Emissions from Eutric Regosols with Different pH in Sichuan Basin: A Mesocosm Study. <i>Atmosphere</i> , 2021, 12, 729.	2.3	6
93	Farmer's adaptive strategies on land competition between societal outcomes and agroecosystem conservation in the purple-soiled hilly region, southwestern China. <i>Journal of Mountain Science</i> , 2012, 9, 77-86.	2.0	5
94	Soil organic carbon loss from carbon dioxide and methane emissions, as well as runoff and leaching on a hillslope of Regosol soil in a wheat-maize rotation. <i>Nutrient Cycling in Agroecosystems</i> , 2015, 103, 75-86.	2.2	5
95	Characteristics of diffuse pollution of nitrogen and phosphorous from a small town in the hilly area of the central Sichuan Basin, China. <i>Journal of Mountain Science</i> , 2016, 13, 292-301.	2.0	5
96	Carbon Balance under Organic Amendments in the Wheat-Maize Cropping Systems of Sloppy Upland Soil. <i>Sustainability</i> , 2020, 12, 2747.	3.2	5
97	Phosphorus sorption-desorption characteristics of ditch sediments from different land uses in a small headwater catchment in the central Sichuan Basin of China. <i>Journal of Mountain Science</i> , 2012, 9, 441-450.	2.0	4
98	Nitrogen Retention in Mesocosm Sediments Received Rural Wastewater Associated with Microbial Community Response to Plant Species. <i>Water (Switzerland)</i> , 2020, 12, 3035.	2.7	4
99	Short-Term Assessment of Nitrous Oxide and Methane Emissions on a Crop Yield Basis in Response to Different Organic Amendment Types in Sichuan Basin. <i>Atmosphere</i> , 2021, 12, 1104.	2.3	4
100	Pathways of dissolved unreactive phosphorus loss under long-term crop straw and manure application. <i>Nutrient Cycling in Agroecosystems</i> , 2021, 120, 161-175.	2.2	3
101	Can vegetated drainage ditches be effective in a similar way as constructed wetlands? Heavy metal and nutrient standing stock by ditch plant species. <i>Ecological Engineering</i> , 2021, 166, 106234.	3.6	3
102	Effects of straw and biochar amendment on hydrological fluxes of dissolved organic carbon in a subtropical montane agricultural landscape. <i>Environmental Pollution</i> , 2022, 296, 118751.	7.5	3
103	Threshold recognition for shallow groundwater recharge by precipitation using dual isotopes in a small subtropical hilly catchment. <i>Catena</i> , 2022, 213, 106186.	5.0	3
104	The relationships of bacterial-feeding nematodes, phoD-harboring bacteria and alkaline phosphomonoesterase activity under the combined application of organic and inorganic fertilizers in an alkaline soil. <i>Applied Soil Ecology</i> , 2022, 179, 104595.	4.3	3
105	Dissolved organic nitrogen fluxes and crop yield after long-term crop straw incorporation. <i>Nutrient Cycling in Agroecosystems</i> , 2018, 112, 133-146.	2.2	2
106	The Combined Application of Organic Materials and Chemical Fertilizer Mitigates the Deterioration of the Trophic Structure of Nematode Community by Increasing Soil N Concentration. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 2530-2537.	3.4	2
107	CRWS-mountain Project: Coordinate remediation techniques and devices for water-soil pollution in mountain areas in China. <i>Journal of Mountain Science</i> , 2021, 18, 2441-2446.	2.0	2
108	Simultaneous quantification of greenhouse gas and nitric oxide emissions from subtropical conventional vegetable systems: a 2-site field case study in Sichuan Basin. <i>Journal of Mountain Science</i> , 2021, 18, 671-682.	2.0	1