

Bo Zhu

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106
papers

2,223
citations

27
h-index

43
g-index

109
ext. papers

2,698
ext. citations

4.8
avg, IF

5.25
L-index

#	Paper	IF	Citations
106	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	2.5	142
105	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	11.4	135
104	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	7.5	107
103	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
102	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	10.2	70
101	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	3.9	69
100	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, 351-61	6.4	66
99	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	5.7	61
98	Nutrient Release from Weathering of Purplish Rocks in the Sichuan Basin, China. <i>Pedosphere</i> , 2008 , 18, 257-264	5	59
97	Nitrous oxide and methane emissions from a subtropical rice-broadbean rotation system in China: A 3-year field case study. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 212, 297-309	5.7	55
96	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
95	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	6.5	49
94	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	6	49
93	Wet and dry nitrogen deposition in the central Sichuan Basin of China. <i>Atmospheric Environment</i> , 2016 , 143, 39-50	5.3	47
92	Bulk deposition of organic and inorganic nitrogen in southwest China from 2008 to 2013. <i>Environmental Pollution</i> , 2017 , 227, 157-166	9.3	46
91	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	6	46
90	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	3.3	45

89	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
88	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	3.4	43
87	Nitrate leaching, direct and indirect nitrous oxide fluxes from sloping cropland in the purple soil area, southwestern China. <i>Environmental Pollution</i> , 2012 , 162, 361-8	9.3	41
86	Modeling nitrogen loadings from agricultural soils in southwest China with modified DNDC. <i>Journal of Geophysical Research</i> , 2011 , 116,		40
85	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	7.5	38
84	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	3.3	38
83	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
82	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	5.8	29
81	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	10.2	28
80	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
79	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	6	27
78	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	2.1	26
77	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	2.1	25
76	Bioavailable phosphorus transport from a hillslope cropland of purple soil under natural and simulated rainfall. <i>Environmental Monitoring and Assessment</i> , 2010 , 171, 539-50	3.1	24
75	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	2.1	22
74	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, 16709-20	5.1	21
73	Long-term impact of primary domestic sewage on metal/loid 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	10.2	20
72	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	3.7	18

71	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	10.2	18
70	Subsurface flow processes in sloping cropland of purple soil. <i>Journal of Mountain Science</i> , 2012 , 9, 1-9	2.1	17
69	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	6	16
68	Uptake and Release of Sequestered Nutrient in Subtropical Monsoon Ecological Ditch Plant Species. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	14
67	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	10.2	14
66	Seasonal variations in indirect N ₂ O emissions from an agricultural headwater ditch. <i>Biology and Fertility of Soils</i> , 2017 , 53, 651-662	6.1	14
65	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
64	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	3.1	13
63	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	5.1	13
62	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	5.1	13
61	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	2.1	12
60	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, 2545-53	4.3	12
59	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	2.5	12
58	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
57	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, 248-53	2.7	11
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	3.3	11
55	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		11
54	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	1.8	11

53	Effects of Nitrogen Fertilization on Upland Rice based on Pot Experiments. <i>Communications in Soil Science and Plant Analysis</i> , 2008 , 39, 1733-1749	1.5	11
52	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	5	10
51	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	3.4	10
50	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	2.1	10
49	Assessment of soil organic carbon stock in the upper Yangtze River basin. <i>Journal of Mountain Science</i> , 2013 , 10, 866-872	2.1	10
48	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	1.7	10
47	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	6.7	10
46	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	10.2	9
45	Indirect NO emissions with seasonal variations from an agricultural drainage ditch mainly receiving interflow water. <i>Environmental Pollution</i> , 2018 , 242, 480-491	9.3	9
44	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	7.5	9
43	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	5.7	9
42	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	2.6	9
41	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
40	Afforestation and deforestation enhanced soil CH 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	10.2	8
39	Ambient concentrations and deposition rates of selected reactive nitrogen species and their contribution to PM aerosols at three locations with contrasting land use in southwest China. <i>Environmental Pollution</i> , 2018 , 233, 1164-1176	9.3	8
38	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	3.1	8
37	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	3.3	8
36	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	5.8	7

35	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	1.6	7
34	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	5.3	7
33	Assessing Nutrient, Biomass, and Sediment Transport of Drainage Ditches in the Three Gorges Reservoir Area. <i>Clean - Soil, Air, Water</i> , 2017 , 45,	1.6	7
32	Nutrient distribution and risk assessment in drainage ditches with different surrounding land uses. <i>Nutrient Cycling in Agroecosystems</i> , 2017 , 107, 381-394	3.3	6
31	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	6.5	6
30	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	3.3	5
29	Effects of afforestation on soil CH ₄ and NO fluxes in a subtropical karst landscape. <i>Science of the Total Environment</i> , 2020 , 705, 135974	10.2	5
28	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	5.7	5
27	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	2.5	4
26	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	5.7	4
25	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	2.1	4
24	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	2.1	4
23	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	6.1	4
22	Seasonal variations of groundwater recharge in a small subtropical agroforestry watershed with horizontal sedimentary bedrock. <i>Journal of Hydrology</i> , 2021 , 596, 125703	6	4
21	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	2.7	3
20	Carbon Balance under Organic Amendments in the Wheat-Maize Cropping Systems of Sloppy Upland Soil. <i>Sustainability</i> , 2020 , 12, 2747	3.6	3
19	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	2.1	3
18	Nitrogen Retention in Mesocosm Sediments Received Rural Wastewater Associated with Microbial Community Response to Plant Species. <i>Water (Switzerland)</i> , 2020 , 12, 3035	3	2

17	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	2.1	2
16	How Tillage and Fertilization Influence Soil N ₂ O Emissions after Forestland Conversion to Cropland. <i>Sustainability</i> , 2020 , 12, 7947	3.6	2
15	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	5.7	2
14	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	5.7	2
13	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	2.7	2
12	Soil gross nitrogen transformations in forestland and cropland of Regosols. <i>Scientific Reports</i> , 2021 , 11, 223	4.9	2
11	Dissolved organic nitrogen fluxes and crop yield after long-term crop straw incorporation. <i>Nutrient Cycling in Agroecosystems</i> , 2018 , 112, 133-146	3.3	1
10	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	2.7	1
9	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	3.9	1
8	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	2.1	1
7	Soil type affects not only magnitude but also thermal sensitivity of NO emissions in subtropical mountain area. <i>Science of the Total Environment</i> , 2021 , 797, 149127	10.2	1
6	Threshold recognition for shallow groundwater recharge by precipitation using dual isotopes in a small subtropical hilly catchment. <i>Catena</i> , 2022 , 213, 106186	5.8	1
5	Effects of straw and biochar amendment on hydrological fluxes of dissolved organic carbon in a subtropical montane agricultural landscape.. <i>Environmental Pollution</i> , 2021 , 296, 118751	9.3	0
4	Pathways of dissolved unreactive phosphorus loss under long-term crop straw and manure application. <i>Nutrient Cycling in Agroecosystems</i> , 2021 , 120, 161	3.3	0
3	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	3.2	0
2	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	5.7	0
1	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	2.1	