

Wei Shi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/894391/publications.pdf>

Version: 2024-02-01

60
papers

2,494
citations

186265

28
h-index

206112

48
g-index

60
all docs

60
docs citations

60
times ranked

2800
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil nitrous oxide emissions following crop residue addition: a meta-analysis. <i>Global Change Biology</i> , 2013, 19, 2956-2964.	9.5	353
2	Chemical composition of dissolved organic matter in agroecosystems: Correlations with soil enzyme activity and carbon and nitrogen mineralization. <i>Applied Soil Ecology</i> , 2010, 46, 426-435.	4.3	135
3	Soil Moisture and pH Control Relative Contributions of Fungi and Bacteria to N ₂ O Production. <i>Microbial Ecology</i> , 2015, 69, 180-191.	2.8	112
4	Phylogenetic, taxonomic and functional diversity of fungal denitrifiers and associated N ₂ O production efficacy. <i>Soil Biology and Biochemistry</i> , 2015, 83, 160-175.	8.8	107
5	Soil microbial diversity and composition: Links to soil texture and associated properties. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107953.	8.8	107
6	The significant contribution of fungi to soil N ₂ O production across diverse ecosystems. <i>Applied Soil Ecology</i> , 2014, 73, 70-77.	4.3	81
7	Microbial control of nitrate concentrations in an agricultural soil treated with dairy waste compost or ammonium fertilizer. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1453-1457.	8.8	77
8	Soil microbial community structure and diversity in a turfgrass chronosequence: Land-use change versus turfgrass management. <i>Applied Soil Ecology</i> , 2006, 34, 209-218.	4.3	76
9	Seasonal variations of soil microbial biomass and activity in warm- and cool-season turfgrass systems. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1536-1543.	8.8	75
10	The impact of secondary forests conversion into larch plantations on soil chemical and microbiological properties. <i>Plant and Soil</i> , 2013, 368, 535-546.	3.7	71
11	Soil enzyme activities and organic matter composition in a turfgrass chronosequence. <i>Plant and Soil</i> , 2006, 288, 285-296.	3.7	70
12	Soil microbial biomass, activity and nitrogen transformations in a turfgrass chronosequence. <i>Soil Biology and Biochemistry</i> , 2006, 38, 311-319.	8.8	70
13	Interactions between N fertilization, grass clipping addition and pH in turf ecosystems: Implications for soil enzyme activities and organic matter decomposition. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1425-1432.	8.8	69
14	Soil enzyme activities in two forage systems following application of different rates of swine lagoon effluent or ammonium nitrate. <i>Applied Soil Ecology</i> , 2008, 38, 128-136.	4.3	58
15	Nitrous oxide producing activity of diverse fungi from distinct agroecosystems. <i>Soil Biology and Biochemistry</i> , 2013, 66, 94-101.	8.8	57
16	Is biochar-manure co-compost a better solution for soil health improvement and N ₂ O emissions mitigation?. <i>Soil Biology and Biochemistry</i> , 2017, 113, 14-25.	8.8	54
17	Soil microbial biomass, activity and potential nitrogen mineralization in a pasture: Impact of stock camping activity. <i>Soil Biology and Biochemistry</i> , 2007, 39, 149-157.	8.8	51
18	Soil microbial biomass and nitrogen dynamics in a turfgrass chronosequence: A short-term response to turfgrass clipping addition. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2032-2042.	8.8	45

#	ARTICLE	IF	CITATIONS
19	Fungal and bacterial N ₂ O production regulated by soil amendments of simple and complex substrates. <i>Soil Biology and Biochemistry</i> , 2015, 84, 116-126.	8.8	45
20	Effects of aeration and moisture during windrow composting on the nitrogen fertilizer values of dairy waste composts. <i>Applied Soil Ecology</i> , 1999, 11, 17-28.	4.3	43
21	Soil microbial responses to winter legume cover crop management during organic transition. <i>European Journal of Soil Biology</i> , 2014, 65, 15-22.	3.2	41
22	Microbial Nitrogen Transformations in Response to Treated Dairy Waste in Agricultural Soils. <i>Soil Science Society of America Journal</i> , 2004, 68, 1867-1874.	2.2	39
23	Plant material addition affects soil nitrous oxide production differently between aerobic and oxygen-limited conditions. <i>Applied Soil Ecology</i> , 2013, 64, 91-98.	4.3	38
24	Soil peroxidase regulates organic matter decomposition through improving the accessibility of reducing sugars and amino acids. <i>Biology and Fertility of Soils</i> , 2014, 50, 785-794.	4.3	38
25	Eighteen-Year Farming Management Moderately Shapes the Soil Microbial Community Structure but Promotes Habitat-Specific Taxa. <i>Frontiers in Microbiology</i> , 2018, 9, 1776.	3.5	38
26	Cellulase Activity as a Mechanism for Suppression of Phytophthora Root Rot in Mulches. <i>Phytopathology</i> , 2011, 101, 223-230.	2.2	36
27	Greenhouse gas emissions in an agroforestry system of the southeastern USA. <i>Nutrient Cycling in Agroecosystems</i> , 2017, 108, 85-100.	2.2	34
28	Biological controls over the abundances of terrestrial ammonia oxidizers. <i>Global Ecology and Biogeography</i> , 2020, 29, 384-399.	5.8	34
29	Short-term effects of plant litter on the dynamics, amount, and stoichiometry of soil enzyme activity in agroecosystems. <i>European Journal of Soil Biology</i> , 2014, 65, 23-29.	3.2	30
30	Detection of N ₂ O-producing fungi in environment using nitrite reductase gene (<i>nirK</i>)-targeting primers. <i>Fungal Biology</i> , 2016, 120, 1479-1492.	2.5	25
31	Microbial Catabolic Diversity in Soils Contaminated with Hydrocarbons and Heavy Metals. <i>Environmental Science & Technology</i> , 2005, 39, 1974-1979.	10.0	24
32	Temperature and Water Content Effects on Carbon Mineralization for Sapric Soil Material. <i>Wetlands</i> , 2012, 32, 939-944.	1.5	24
33	Reactive Nitrogen in Turfgrass Systems: Relations to Soil Physical, Chemical, and Biological Properties. <i>Journal of Environmental Quality</i> , 2015, 44, 210-218.	2.0	23
34	Soil microbial community composition and structure: residual effects of contrasting N fertilization of swine lagoon effluent versus ammonium nitrate. <i>Plant and Soil</i> , 2007, 292, 233-242.	3.7	22
35	Soil organic matter stabilization in turfgrass ecosystems: Importance of microbial processing. <i>Soil Biology and Biochemistry</i> , 2010, 42, 642-648.	8.8	20
36	Microbial and soil properties in bentgrass putting greens: Impacts of nitrogen fertilization rates. <i>Geoderma</i> , 2011, 162, 215-221.	5.1	20

#	ARTICLE	IF	CITATIONS
37	The community composition of soil-denitrifying bacteria from a turfgrass environment. <i>Research in Microbiology</i> , 2010, 161, 315-325.	2.1	18
38	Biochar suppresses N ₂ O emissions and alters microbial communities in an acidic tea soil. <i>Environmental Science and Pollution Research</i> , 2019, 26, 35978-35987.	5.3	18
39	Fate of ¹⁵ N-Nitrate Applied to a Bermudagrass System: Assimilation Profiles in Different Seasons. <i>Crop Science</i> , 2009, 49, 2291-2301.	1.8	17
40	Nitrous oxide production in turfgrass systems: Effects of soil properties and grass clipping recycling. <i>Applied Soil Ecology</i> , 2013, 67, 61-69.	4.3	17
41	Heat stress and N fertilization affect soil microbial and enzyme activities in the creeping bentgrass (<i>Agrostis Stolonifera</i> L.) rhizosphere. <i>Applied Soil Ecology</i> , 2012, 56, 19-26.	4.3	16
42	The extent and pathways of nitrogen loss in turfgrass systems: Age impacts. <i>Science of the Total Environment</i> , 2018, 637-638, 746-757.	8.0	14
43	The soil microbial community of turf: linear and nonlinear changes of taxa and N-cycling gene abundances over a century-long turf development. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	14
44	Intensive Management Affects Composition of Betaproteobacterial Ammonia Oxidizers in Turfgrass Systems. <i>Microbial Ecology</i> , 2008, 56, 178-190.	2.8	13
45	Agricultural and Ecological Significance of Soil Enzymes: Soil Carbon Sequestration and Nutrient Cycling. <i>Soil Biology</i> , 2010, , 43-60.	0.8	13
46	Soil pore size distribution shaped not only compositions but also networks of the soil microbial community. <i>Applied Soil Ecology</i> , 2022, 170, 104273.	4.3	13
47	Soil Organic Matter Accumulation in Creeping Bentgrass Greens: A Chronosequence with Implications for Management and Carbon Sequestration. <i>Agronomy Journal</i> , 2011, 103, 604-610.	1.8	12
48	Sorption of Simazine and <i>S</i> -Metolachlor to Soils from a Chronosequence of Turfgrass Systems. <i>Weed Science</i> , 2013, 61, 508-514.	1.5	12
49	Predominant Microbial Colonizers in the Root Endosphere and Rhizosphere of Turfgrass Systems: <i>Pseudomonas veronii</i> , <i>Janthinobacterium lividum</i> , and <i>Pseudogymnoascus</i> spp.. <i>Frontiers in Microbiology</i> , 2021, 12, 643904.	3.5	12
50	Probing the biological sources of soil N ₂ O emissions by quantum cascade laser-based ¹⁵ N isotopocule analysis. <i>Soil Biology and Biochemistry</i> , 2016, 100, 175-181.	8.8	11
51	Nitrapyrin-based nitrification inhibitors shaped the soil microbial community via controls on soil pH and inorganic N composition. <i>Applied Soil Ecology</i> , 2022, 170, 104295.	4.3	11
52	Opening up the N ₂ O-producing fungal community in an agricultural soil with a cytochrome p450nor-based primer tool. <i>Applied Soil Ecology</i> , 2017, 119, 392-395.	4.3	9
53	Microbial Control of Soil Carbon Accumulation in Turfgrass Systems. , 2012, , 215-231.		8
54	Soil Organic Matter Changes in Turfgrass Systems Affect Binding and Biodegradation of Simazine. <i>Crop Science</i> , 2009, 49, 1481-1488.	1.8	7

#	ARTICLE	IF	CITATIONS
55	Impacts of forest-based bioenergy feedstock production on soil nitrogen cycling. <i>Forest Ecology and Management</i> , 2018, 419-420, 227-239.	3.2	5
56	Defoliation management and grass growth habits modulated the soil microbial community of turfgrass systems. <i>PLoS ONE</i> , 2019, 14, e0218967.	2.5	4
57	Impacts on soil nitrogen availability of converting managed pine plantation into switchgrass monoculture for bioenergy. <i>Science of the Total Environment</i> , 2019, 654, 1326-1336.	8.0	4
58	Soil chemical and microbiological properties in hay production systems: residual effects of contrasting N fertilization of swine lagoon effluent versus ammonium nitrate. <i>Biology and Fertility of Soils</i> , 2008, 44, 425-434.	4.3	2
59	EFFECT OF SOIL SATURATION ON DEVELOPMENT AND ¹⁵ N-NITRATE UPTAKE EFFICIENCY OF TWO WARM SEASON GRASSES EMERGING FROM DORMANCY. <i>Journal of Plant Nutrition</i> , 2011, 34, 2039-2054.	1.9	2
60	Modeling impact of nitrogen carrier and concentration on root substrate pH. <i>Journal of Plant Nutrition</i> , 2017, 40, 2101-2108.	1.9	0