

Wendy H Yang

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,969
citations

304701

22
h-index

265191

42
g-index

52
all docs

52
docs citations

52
times ranked

3036
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen loss from soil through anaerobic ammonium oxidation coupled to iron reduction. <i>Nature Geoscience</i> , 2012, 5, 538-541.	12.9	313
2	Controls on long-term root and leaf litter decomposition in neotropical forests. <i>Global Change Biology</i> , 2009, 15, 1339-1355.	9.5	175
3	How strong is intracanalopy leaf plasticity in temperate deciduous trees?. <i>American Journal of Botany</i> , 2006, 93, 829-839.	1.7	171
4	Beyond carbon and nitrogen: how the microbial energy economy couples elemental cycles in diverse ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 44-52.	4.0	162
5	Ecological and Genomic Attributes of Novel Bacterial Taxa That Thrive in Subsurface Soil Horizons. <i>MBio</i> , 2019, 10, .	4.1	108
6	Soils' dirty little secret: Depth-based comparisons can be inadequate for quantifying changes in soil organic carbon and other mineral soil properties. <i>Global Change Biology</i> , 2020, 26, 3759-3770.	9.5	76
7	Beyond denitrification: The role of microbial diversity in controlling nitrous oxide reduction and soil nitrous oxide emissions. <i>Global Change Biology</i> , 2021, 27, 2669-2683.	9.5	57
8	Cross-biome assessment of gross soil nitrogen cycling in California ecosystems. <i>Soil Biology and Biochemistry</i> , 2017, 107, 144-155.	8.8	56
9	A test of a field-based ¹⁵ N ₂ “nitrous oxide pool dilution technique to measure gross N ₂ O production in soil. <i>Global Change Biology</i> , 2011, 17, 3577-3588.	9.5	52
10	Dynamic biochar effects on soil nitrous oxide emissions and underlying microbial processes during the maize growing season. <i>Soil Biology and Biochemistry</i> , 2018, 122, 81-90.	8.8	52
11	Frontiers in alley cropping: Transformative solutions for temperate agriculture. <i>Global Change Biology</i> , 2018, 24, 883-894.	9.5	52
12	Woody debris contribution to the carbon budget of selectively logged and maturing mid-latitude forests. <i>Oecologia</i> , 2006, 148, 108-117.	2.0	49
13	Gross nitrous oxide production drives net nitrous oxide fluxes across a salt marsh landscape. <i>Global Change Biology</i> , 2016, 22, 2228-2237.	9.5	43
14	Looking back to look ahead: a vision for soil denitrification research. <i>Ecology</i> , 2020, 101, e02917.	3.2	41
15	New high precision approach for measuring ¹⁵ N ₂ gas fluxes from terrestrial ecosystems. <i>Soil Biology and Biochemistry</i> , 2014, 69, 234-241.	8.8	34
16	High potential for iron reduction in upland soils. <i>Ecology</i> , 2015, 96, 2015-2020.	3.2	33
17	Historical soil drainage mediates the response of soil greenhouse gas emissions to intense precipitation events. <i>Biogeochemistry</i> , 2019, 142, 425-442.	3.5	33
18	Microtopographic differences in soil properties and microbial community composition at the field scale. <i>Soil Biology and Biochemistry</i> , 2019, 131, 71-80.	8.8	32

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19	Continental-scale patterns of extracellular enzyme activity in the subsoil: an overlooked reservoir of microbial activity. <i>Environmental Research Letters</i> , 2020, 15, 1040a1.	5.2	32
20	Net soil-atmosphere fluxes mask patterns in gross production and consumption of nitrous oxide and methane in a managed ecosystem. <i>Biogeosciences</i> , 2016, 13, 1705-1715.	3.3	29
21	The carbon and nitrogen cycle impacts of reverting perennial bioenergy switchgrass to an annual maize crop rotation. <i>GCB Bioenergy</i> , 2020, 12, 941-954.	5.6	29
22	Hierarchical detection of diverse Clade II (atypical) <i>nosZ</i> genes using new primer sets for classical- and multiplex PCR array applications. <i>Journal of Microbiological Methods</i> , 2020, 172, 105908.	1.6	25
23	Ecosystem-scale biogeochemical fluxes from three bioenergy crop candidates: How energy sorghum compares to maize and miscanthus. <i>GCB Bioenergy</i> , 2021, 13, 445-458.	5.6	24
24	Microbially mediated nitrogen retention and loss in a salt marsh soil. <i>Ecosphere</i> , 2015, 6, 1-15.	2.2	22
25	Evaluating the Classical Versus an Emerging Conceptual Model of Peatland Methane Dynamics. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1435-1453.	4.9	22
26	Optimization of PCR primers to detect phylogenetically diverse <i>nrfA</i> genes associated with nitrite ammonification. <i>Journal of Microbiological Methods</i> , 2019, 160, 49-59.	1.6	22
27	Dynamic Controls on Field-scale Soil Nitrous Oxide Hot Spots and Hot Moments Across a Microtopographic Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3618-3634.	3.0	21
28	Mycorrhizal type effects on leaf litter decomposition depend on litter quality and environmental context. <i>Biogeochemistry</i> , 2021, 155, 21-38.	3.5	20
29	Invasive perennial forb effects on gross soil nitrogen cycling and nitrous oxide fluxes depend on phenology. <i>Ecology</i> , 2019, 100, e02716.	3.2	19
30	Comparing DNA, RNA and protein levels for measuring microbial dynamics in soil microcosms amended with nitrogen fertilizer. <i>Scientific Reports</i> , 2019, 9, 17630.	3.3	18
31	Improvements in soil health and soil carbon sequestration by an agroforestry for food production system. <i>Agriculture, Ecosystems and Environment</i> , 2022, 333, 107945.	5.3	18
32	Application of the N ₂ /Ar technique to measuring soil-atmosphere N ₂ fluxes. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 449-459.	1.5	17
33	Light availability and rhizobium variation interactively mediate the outcomes of legume-rhizobium symbiosis. <i>American Journal of Botany</i> , 2020, 107, 229-238.	1.7	15
34	A new approach for removing iron interference from soil nitrate analysis. <i>Soil Biology and Biochemistry</i> , 2012, 46, 123-128.	8.8	14
35	Effects of triclosan and triclocarban on denitrification and N ₂ O emissions in paddy soil. <i>Science of the Total Environment</i> , 2019, 695, 133782.	8.0	13
36	Bioenergy Underground: Challenges and opportunities for phenotyping roots and the microbiome for sustainable bioenergy crop production. <i>The Plant Phenome Journal</i> , 2022, 5, .	2.0	9

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37	Iron Redox Reactions Can Drive Microtopographic Variation in Upland Soil Carbon Dioxide and Nitrous Oxide Emissions. <i>Soil Systems</i> , 2019, 3, 60.	2.6	7
38	Intra- and interspecific variation in trophic ecology of "predatory" ants in the subfamily Ponerinae. <i>Ecological Entomology</i> , 2020, 45, 444-455.	2.2	7
39	The effects of tree-mycorrhizal type on soil organic matter properties from neighborhood to watershed scales. <i>Soil Biology and Biochemistry</i> , 2021, 161, 108385.	8.8	7
40	Assessing the impacts of pre-growing-season weather conditions on soil nitrogen dynamics and corn productivity in the U.S. Midwest. <i>Field Crops Research</i> , 2022, 284, 108563.	5.1	7
41	Intra- and inter-annual variability of nitrification in the rhizosphere of field-grown bioenergy sorghum. <i>GCB Bioenergy</i> , 2022, 14, 393-410.	5.6	6
42	Measuring gross N_2O production in soil: a reply to Well and Butterbach-Bahl. <i>Global Change Biology</i> , 2013, 19, 985-987.	9.5	4
43	Sequence alignments and validation of PCR primers used to detect phylogenetically diverse <i>nrfA</i> genes associated with dissimilatory nitrate reduction to ammonium (DNRA). <i>Data in Brief</i> , 2019, 25, 104016.	1.0	4
44	Nitrous oxide fluxes over establishing biofuel crops: Characterization of temporal variability using the cross-wavelet analysis. <i>GCB Bioenergy</i> , 2020, 12, 756-770.	5.6	4
45	Spatiotemporal Derivation of Intermittent Ponding in a Maize-Soybean Landscape from Planet Labs CubeSat Images. <i>Remote Sensing</i> , 2020, 12, 1942.	4.0	4
46	Comparative establishment and yield of bioenergy sorghum and maize following pre-emergence waterlogging. <i>Agronomy Journal</i> , 2021, 113, 5602-5611.	1.8	4
47	Tracing plant-environment interactions from organismal to planetary scales using stable isotopes: a mini review. <i>Emerging Topics in Life Sciences</i> , 2021, 5, 301-316.	2.6	3
48	Soil microbial communities are not altered by garlic mustard in recently invaded central Illinois forests. <i>Ecosphere</i> , 2022, 13, .	2.2	2
49	Complete Genome Sequence of <i>Geobacter</i> sp. Strain FeAm09, a Moderately Acidophilic Soil Bacterium. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	1