

# Lucas William Mendes

## List of Publications by Citations

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86  
papers

2,174  
citations

21  
h-index

45  
g-index

93  
ext. papers

3,276  
ext. citations

4.9  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
86	Taxonomical and functional microbial community selection in soybean rhizosphere. <i>ISME Journal</i> , <b>2014</b> , 8, 1577-87	11.9	423
85	Pathogen-induced activation of disease-suppressive functions in the endophytic root microbiome. <i>Science</i> , <b>2019</b> , 366, 606-612	33.3	263
84	Soil-borne microbiome: linking diversity to function. <i>Microbial Ecology</i> , <b>2015</b> , 70, 255-65	4.4	161
83	Influence of resistance breeding in common bean on rhizosphere microbiome composition and function. <i>ISME Journal</i> , <b>2018</b> , 12, 212-224	11.9	147
82	Impact of long-term N, P, K, and NPK fertilization on the composition and potential functions of the bacterial community in grassland soil. <i>FEMS Microbiology Ecology</i> , <b>2014</b> , 90, 195-205	4.3	136
81	Soil microbiome responses to the short-term effects of Amazonian deforestation. <i>Molecular Ecology</i> , <b>2015</b> , 24, 2433-48	5.7	103
80	Land-use system shapes soil bacterial communities in Southeastern Amazon region. <i>Applied Soil Ecology</i> , <b>2015</b> , 95, 151-160	5	73
79	Bacterial Community Succession in Pine-Wood Decomposition. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 231	5.7	72
78	The impact of tropical forest logging and oil palm agriculture on the soil microbiome. <i>Molecular Ecology</i> , <b>2016</b> , 25, 2244-57	5.7	47
77	Breeding for soil-borne pathogen resistance impacts active rhizosphere microbiome of common bean. <i>ISME Journal</i> , <b>2018</b> , 12, 3038-3042	11.9	44
76	Soil microbial community dynamics and assembly under long-term land use change. <i>FEMS Microbiology Ecology</i> , <b>2017</b> , 93,	4.3	36
75	Variations of Bacterial Community Structure and Composition in Mangrove Sediment at Different Depths in Southeastern Brazil. <i>Diversity</i> , <b>2014</b> , 6, 827-843	2.5	36
74	Forest-to-agriculture conversion in Amazon drives soil microbial communities and N-cycle. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 137, 107567	7.5	33
73	Protist species richness and soil microbiome complexity increase towards climax vegetation in the Brazilian Cerrado. <i>Communications Biology</i> , <b>2018</b> , 1, 135	6.7	31
72	Shifts in phylogenetic diversity of archaeal communities in mangrove sediments at different sites and depths in southeastern Brazil. <i>Research in Microbiology</i> , <b>2012</b> , 163, 366-77	4	29
71	Microbiological indicators of soil quality in a riparian forest recovery gradient. <i>Ecological Engineering</i> , <b>2013</b> , 53, 313-320	3.9	28
70	Multitrophic interactions in the rhizosphere microbiome of wheat: from bacteria and fungi to protists. <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	27

69	Using Metagenomics to Connect Microbial Community Biodiversity and Functions. <i>Current Issues in Molecular Biology</i> , <b>2017</b> , 24, 103-118	2.9	27
68	Responses of soil bacterial community after seventh yearly applications of composted tannery sludge. <i>Geoderma</i> , <b>2018</b> , 318, 1-8	6.7	24
67	Land-use systems affect Archaeal community structure and functional diversity in western Amazon soils. <i>Revista Brasileira De Ciencia Do Solo</i> , <b>2011</b> , 35, 1527-1540	1.5	24
66	Forest-to-pasture conversion and recovery based on assessment of microbial communities in Eastern Amazon rainforest. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	23
65	Ecological Processes Shaping Bulk Soil and Rhizosphere Microbiome Assembly in a Long-Term Amazon Forest-to-Agriculture Conversion. <i>Microbial Ecology</i> , <b>2020</b> , 79, 110-122	4.4	21
64	Recycling organic residues in agriculture impacts soil-borne microbial community structure, function and NO emissions. <i>Science of the Total Environment</i> , <b>2018</b> , 631-632, 1089-1099	10.2	20
63	Distinct taxonomic and functional composition of soil microbiomes along the gradient forest-restinga-mangrove in southeastern Brazil. <i>Antonie Van Leeuwenhoek</i> , <b>2018</b> , 111, 101-114	2.1	20
62	Molecular Characterization of the Archaeal Community in an Amazonian Wetland Soil and Culture-Dependent Isolation of Methanogenic Archaea. <i>Diversity</i> , <b>2010</b> , 2, 1026-1047	2.5	19
61	Bacterial community associated with rhizosphere of maize and cowpea in a subsequent cultivation. <i>Applied Soil Ecology</i> , <b>2019</b> , 143, 26-34	5	16
60	Archaea diversity in vegetation gradients from the Brazilian Cerrado. <i>Brazilian Journal of Microbiology</i> , <b>2018</b> , 49, 522-528	2.2	16
59	Functional diversity of bacterial genes associated with aromatic hydrocarbon degradation in anthropogenic dark earth of Amazonia. <i>Pesquisa Agropecuaria Brasileira</i> , <b>2012</b> , 47, 654-664	1.8	16
58	Resistance Breeding of Common Bean Shapes the Physiology of the Rhizosphere Microbiome. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 2252	5.7	15
57	Amazon forest-to-agriculture conversion alters rhizosphere microbiome composition while functions are kept. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	15
56	Assessment of bacterial bph gene in Amazonian dark earth and their adjacent soils. <i>PLoS ONE</i> , <b>2014</b> , 9, e99597	3.7	15
55	The natural recovery of soil microbial community and nitrogen functions after pasture abandonment in the Amazon region. <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	15
54	<i>Bacillus subtilis</i> can modulate the growth and root architecture in soybean through volatile organic compounds. <i>Theoretical and Experimental Plant Physiology</i> , <b>2020</b> , 32, 99-108	2.4	14
53	Nodule microbiome from cowpea and lima bean grown in composted tannery sludge-treated soil. <i>Applied Soil Ecology</i> , <b>2020</b> , 151, 103542	5	12
52	Long-term application of biomass and reduced use of chemicals alleviate soil compaction and improve soil quality. <i>Soil and Tillage Research</i> , <b>2012</b> , 120, 147-153	6.5	12

51	Diversity and structure of bacterial community in rhizosphere of lima bean. <i>Applied Soil Ecology</i> , <b>2020</b> , 150, 103490	5	11
50	Metagenome assembled-genomes reveal similar functional profiles of CPR/Patescibacteria phyla in soils. <i>Environmental Microbiology Reports</i> , <b>2020</b> , 12, 651-655	3.7	11
49	Responses of soil microbial biomass and enzyme activity to herbicides imazethapyr and flumioxazin. <i>Scientific Reports</i> , <b>2020</b> , 10, 7694	4.9	10
48	Response of a methane-driven interaction network to stressor intensification. <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	9
47	Liming in the sugarcane burnt system and the green harvest practice affect soil bacterial community in northeastern S Paulo, Brazil. <i>Antonie Van Leeuwenhoek</i> , <b>2016</b> , 109, 1643-1654	2.1	9
46	When the going gets tough: Emergence of a complex methane-driven interaction network during recovery from desiccation-rewetting. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 153, 108109	7.5	9
45	Tannin supplementation modulates the composition and function of ruminal microbiome in lambs infected with gastrointestinal nematodes. <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	8
44	Recovery in methanotrophic activity does not reflect on the methane-driven interaction network after peat mining. <i>Applied and Environmental Microbiology</i> , <b>2020</b> ,	4.8	8
43	Genome-Resolved Metagenomics Is Essential for Unlocking the Microbial Black Box of the Soil. <i>Trends in Microbiology</i> , <b>2021</b> , 29, 279-282	12.4	7
42	Response of soil bacterial communities to the application of the herbicides imazethapyr and flumyazin. <i>European Journal of Soil Biology</i> , <b>2021</b> , 102, 103252	2.9	7
41	Dynamics of archaeal community in soil with application of composted tannery sludge. <i>Scientific Reports</i> , <b>2019</b> , 9, 7347	4.9	6
40	Plant Compartments and Developmental Stages Modulate the Balance between Niche-Based and Neutral Processes in Soybean Microbiome. <i>Microbial Ecology</i> , <b>2021</b> , 82, 416-428	4.4	6
39	Amazon deforestation enriches antibiotic resistance genes. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 153, 108110	7.5	5
38	Grazing exclusion regulates bacterial community in highly degraded semiarid soils from the Brazilian Caatinga biome. <i>Land Degradation and Development</i> , <b>2021</b> , 32, 2210-2225	4.4	5
37	Capability of plant growth-promoting bacteria in chromium-contaminated soil after application of composted tannery sludge. <i>Annals of Microbiology</i> , <b>2019</b> , 69, 665-671	3.2	4
36	Soil microbial C:N:P ratio across physiognomies of Brazilian Cerrado Soil microbial biomass across a gradient of preserved native Cerrado. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2019</b> , 91, e20190049	1.4	4
35	Distinct bacterial community structure and composition along different cowpea producing ecoregions in Northeastern Brazil. <i>Scientific Reports</i> , <b>2021</b> , 11, 831	4.9	4
34	The use of indigenous bacterial community as inoculant for plant growth promotion in soybean cultivation. <i>Archives of Agronomy and Soil Science</i> , 1-16	2	4

33	Microbial co-occurrence network and its key microorganisms in soil with permanent application of composted tannery sludge. <i>Science of the Total Environment</i> , <b>2021</b> , 789, 147945	10.2	4
32	Assessment of microbial diversity associated with CH emission from sugarcane vinasse storage and transportation systems. <i>Journal of Environmental Management</i> , <b>2020</b> , 269, 110748	7.9	3
31	Distinct taxonomic composition of soil bacterial community across a native gradient of Cerrado-Ecotone-Caatinga. <i>Applied Soil Ecology</i> , <b>2021</b> , 161, 103874	5	3
30	<i>Bacillus subtilis</i> changes the root architecture of soybean grown on nutrient-poor substrate. <i>Rhizosphere</i> , <b>2021</b> , 18, 100348	3.5	3
29	On-Site Blackwater Treatment Fosters Microbial Groups and Functions to Efficiently and Robustly Recover Carbon and Nutrients. <i>Microorganisms</i> , <b>2020</b> , 9,	4.9	2
28	Isolation and enzyme bioprospection of bacteria associated to , a mangrove plant of North Sumatra, Indonesia. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2021</b> , 30, e00617	5.3	2
27	Seed size influences the promoting activity of rhizobia on plant growth, nodulation and N fixation in lima bean. <i>Ciencia Rural</i> , <b>2021</b> , 51,	1.3	2
26	Dynamics of bacterial and archaeal communities along the composting of tannery sludge. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 64295-64306	5.1	2
25	Arbuscular mycorrhizal community in soil from different Brazilian Cerrado physiognomies. <i>Rhizosphere</i> , <b>2021</b> , 19, 100375	3.5	2
24	Cover crops shape the soil bacterial community in a tropical soil under no-till. <i>Applied Soil Ecology</i> , <b>2021</b> , 168, 104166	5	2
23	The methane-driven interaction network in terrestrial methane hotspots.. <i>Environmental Microbiomes</i> , <b>2022</b> , 17, 15	5.6	2
22	Microbial Assembly in Agroecosystems [From the Small Arise the Big <b>2015</b> ,		1
21	Characterization and Comparison of Intestinal Bacterial Microbiomes of and Collected in Brazil and the United States. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 769965	5.7	1
20	Aerobic Methanotrophy and Co-occurrence Networks of a Tropical Rainforest and Oil Palm Plantations in Malaysia. <i>Microbial Ecology</i> , <b>2021</b> , 1	4.4	1
19	Rhizosphere Microbiome and Soil-Borne Diseases. <i>Rhizosphere Biology</i> , <b>2021</b> , 155-168	0.8	1
18	Maintaining grass coverage increases methane uptake in Amazonian pasture soils		1
17	Diversity, structure, and composition of plant growth-promoting bacteria in soil from Brazilian Cerrado. <i>Rhizosphere</i> , <b>2021</b> , 20, 100435	3.5	1
16	Ecosystem functions in different physiognomies of Cerrado through the Rapid Ecosystem Function Assessment (REFA).. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2022</b> , 94, e20200457	1.4	0

15	Long-term land use in Amazon influence the dynamic of microbial communities in soil and rhizosphere. <i>Rhizosphere</i> , <b>2022</b> , 21, 100482	3.5	o
14	The effect of <i>Haemonchus contortus</i> and <i>Trichostrongylus colubriformis</i> infection on the ruminal microbiome of lambs. <i>Experimental Parasitology</i> , <b>2021</b> , 231, 108175	2.1	o
13	Cowpea nodules host a similar bacterial community regardless of soil properties. <i>Applied Soil Ecology</i> , <b>2022</b> , 172, 104354	5	o
12	Forest-to-pasture conversion modifies the soil bacterial community in Brazilian dry forest Caatinga. <i>Science of the Total Environment</i> , <b>2021</b> , 810, 151943	10.2	o
11	Land degradation affects the microbial communities in the Brazilian Caatinga biome. <i>Catena</i> , <b>2022</b> , 211, 105961	5.8	o
10	Metabolic potential and survival strategies of microbial communities across extreme temperature gradients on Deception Island volcano, Antarctica. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 4054-4073	5.2	o
9	Does algae Eglucan affect the fecal bacteriome in dairy calves?. <i>PLoS ONE</i> , <b>2021</b> , 16, e0258069	3.7	o
8	Genetically related genotypes of cowpea present similar bacterial community in the rhizosphere.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3472	4.9	o
7	Enzymatic Stoichiometry in Soils from Physiognomies of Brazilian Cerrado. <i>Journal of Soil Science and Plant Nutrition</i> , 1	3.2	o
6	Taxonomy and Functional Diversity in the Fecal Microbiome of Beef Cattle Reared in Brazilian Traditional and Semi-Intensive Production Systems.. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 768480	5.7	o
5	5. Exploring Diversity of Soil Microorganisms: A Multidimensional Approach <b>2016</b> , 66-86		
4	Dataset for effects of the transition from dry forest to pasture on diversity and structure of bacterial communities in Northeastern Brazil.. <i>Data in Brief</i> , <b>2022</b> , 41, 107842	1.2	
3	Methods to Identify Soil Microbial Bioindicators of Sustainable Management of Bioenergy Crops. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2232, 251-263	1.4	
2	Analysis of a bacterial community structure and the diversity of phzF gene in samples of the Amazonian Dark Earths cultivated with cowpea [ <i>Vigna unguiculata</i> (L.) Wald]. <i>African Journal of Agricultural Research Vol Pp</i> , <b>2018</b> , 13, 1980-1989	0.5	
1	Maintaining grass coverage increases methane uptake in Amazonian pastures, with a reduction of methanogenic archaea in the rhizosphere. <i>Science of the Total Environment</i> , <b>2022</b> , 838, 156225	10.2	