

Kari E Dunfield

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

4,394
citations

145106

33
h-index

129628

63
g-index

97
all docs

97
docs citations

97
times ranked

5990
citing authors

#	ARTICLE	IF	CITATIONS
1	Roots alter soil microbial diversity and interkingdom interactions in diversified agricultural landscapes. <i>Oikos</i> , 2023, 2023, .	1.2	6
2	The biological sink of atmospheric H ₂ is more sensitive to spatial variation of microbial diversity than N ₂ O and CO ₂ emissions in a winter cover crop field trial. <i>Science of the Total Environment</i> , 2022, 821, 153420.	3.9	2
3	Microbial feedbacks on soil organic matter dynamics underlying the legacy effect of diversified cropping systems. <i>Soil Biology and Biochemistry</i> , 2022, 167, 108584.	4.2	14
4	Seasonal agricultural wetlands act as potential source of N ₂ O and CH ₄ emissions. <i>Catena</i> , 2022, 213, 106184.	2.2	3
5	Tillage management exerts stronger controls on soil microbial community structure and organic matter molecular composition than N fertilization. <i>Agriculture, Ecosystems and Environment</i> , 2022, 336, 108028.	2.5	3
6	Dairy manure acidification reduces CH ₄ emissions over short and long-term. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 2797-2804.	1.2	14
7	Sorption-desorption and biodegradation of sulfometuron-methyl and its effects on the bacterial communities in Amazonian soils amended with aged biochar. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111222.	2.9	16
8	Identification of degrader bacteria and fungi enriched in rhizosphere soil from a toluene phytoremediation site using DNA stable isotope probing. <i>International Journal of Phytoremediation</i> , 2021, 23, 846-856.	1.7	2
9	2017 CSM Murray Award for Career Achievement. <i>Canadian Journal of Microbiology</i> , 2021, 67, v-v.	0.8	0
10	Soil microbial communities influencing organic phosphorus mineralization in a coastal dune chronosequence in New Zealand. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	12
11	Impacts of land-use changes on the variability of microbiomes in soil profiles. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 5056-5066.	1.7	5
12	Altered soil organic matter composition and degradation after a decade of nitrogen fertilization in a temperate agroecosystem. <i>Agriculture, Ecosystems and Environment</i> , 2021, 310, 107305.	2.5	19
13	A mechanistic model of methane emission from animal slurry with a focus on microbial groups. <i>PLoS ONE</i> , 2021, 16, e0252881.	1.1	8
14	Understanding methane emission from stored animal manure: A review to guide model development. <i>Journal of Environmental Quality</i> , 2021, 50, 817-835.	1.0	30
15	Root Functional Trait and Soil Microbial Coordination: Implications for Soil Respiration in Riparian Agroecosystems. <i>Frontiers in Plant Science</i> , 2021, 12, 681113.	1.7	11
16	Response Curves for Ammonia and Methane Emissions From Stored Liquid Manure Receiving Low Rates of Sulfuric Acid. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	2
17	Impact of grassland afforestation with contrasting tree species on soil phosphorus fractions and alkaline phosphatase gene communities. <i>Soil Biology and Biochemistry</i> , 2021, 159, 108274.	4.2	29
18	Interactive role of topography and best management practices on N ₂ O emissions from agricultural landscape. <i>Soil and Tillage Research</i> , 2021, 212, 105063.	2.6	12

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19	Long-term N inputs shape microbial communities more strongly than current-year inputs in soils under 10-year continuous corn cropping. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108361.	4.2	16
20	Identifying hotspots and representative monitoring locations of field scale N ₂ O emissions from agricultural soils: A time stability analysis. <i>Science of the Total Environment</i> , 2021, 788, 147955.	3.9	5
21	Bacterial Endophytes: Diversity, Functional Importance, and Potential for Manipulation. <i>Rhizosphere Biology</i> , 2021, , 1-49.	0.4	9
22	Indications of shifting microbial communities associated with growing biomass crops on marginal lands in Southern Ontario. <i>Agroforestry Systems</i> , 2020, 94, 735-746.	0.9	6
23	Short-term response of soil N-cycling genes and transcripts to fertilization with nitrification and urease inhibitors, and relationship with field-scale N ₂ O emissions. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107703.	4.2	28
24	Quantification of toluene phytoextraction rates and microbial biodegradation functional profiles at a fractured bedrock phytoremediation site. <i>Science of the Total Environment</i> , 2020, 707, 135890.	3.9	10
25	Crop rotations differ in soil carbon stabilization efficiency, but the response to quality of structural plant inputs is ambiguous. <i>Plant and Soil</i> , 2020, 457, 207-224.	1.8	17
26	Long-term diverse rotation alters nitrogen cycling bacterial groups and nitrous oxide emissions after nitrogen fertilization. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107917.	4.2	42
27	Does overwintering change the inoculum effect on methane emissions from stored liquid manure?. <i>Journal of Environmental Quality</i> , 2020, 49, 247-255.	1.0	3
28	It takes three to tango: the importance of microbes, host plant, and soil management to elucidate manipulation strategies for the plant microbiome. <i>Canadian Journal of Microbiology</i> , 2020, 66, 413-433.	0.8	44
29	Plant communities mediate the interactive effects of invasion and drought on soil microbial communities. <i>ISME Journal</i> , 2020, 14, 1396-1409.	4.4	53
30	Riparian land-use systems impact soil microbial communities and nitrous oxide emissions in an agro-ecosystem. <i>Science of the Total Environment</i> , 2020, 724, 138148.	3.9	22
31	Effect of long-term plant biomass management on phosphatase-producing bacterial populations in soils under temperate grassland. <i>Applied Soil Ecology</i> , 2020, 151, 103583.	2.1	5
32	Enemy of my enemy: evidence for variable soil biota feedbacks of <i>Vincetoxicum rossicum</i> on native plants. <i>Biological Invasions</i> , 2019, 21, 67-83.	1.2	7
33	Greenhouse Gas Mitigation through Dairy Manure Acidification. <i>Journal of Environmental Quality</i> , 2019, 48, 1435-1443.	1.0	17
34	Soil phosphorus bioavailability as influenced by long-term management and applied phosphorus source. <i>Canadian Journal of Soil Science</i> , 2019, 99, 292-304.	0.5	3
35	Assessing toluene biodegradation under temporally varying redox conditions in a fractured bedrock aquifer using stable isotope methods. <i>Water Research</i> , 2019, 165, 114986.	5.3	13
36	Toluene biodegradation in the vadose zone of a poplar phytoremediation system identified using metagenomics and toluene-specific stable carbon isotope analysis. <i>International Journal of Phytoremediation</i> , 2019, 21, 60-69.	1.7	12

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37	Soil alkaline phosphatase activity and bacterial phoD gene abundance and diversity under long-term nitrogen and manure inputs. <i>Geoderma</i> , 2019, 349, 36-44.	2.3	72
38	Quantifying the relationships between soil fraction mass, fraction carbon, and total soil carbon to assess mechanisms of physical protection. <i>Soil Biology and Biochemistry</i> , 2019, 135, 95-107.	4.2	55
39	Impact of long-term phosphorus fertilizer inputs on bacterial phoD gene community in a maize field, Northeast China. <i>Science of the Total Environment</i> , 2019, 669, 1011-1018.	3.9	89
40	Wildfire severity reduces richness and alters composition of soil fungal communities in boreal forests of western Canada. <i>Global Change Biology</i> , 2019, 25, 2310-2324.	4.2	72
41	Targeting Bacteria and Methanogens To Understand the Role of Residual Slurry as an Inoculant in Stored Liquid Dairy Manure. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	21
42	Plant response to biochar, compost, and mycorrhizal fungal amendments in post-mine sandpits. <i>Restoration Ecology</i> , 2018, 26, 63-72.	1.4	52
43	Validating novel oligonucleotide primers targeting three classes of bacterial non-specific acid phosphatase genes in grassland soils. <i>Plant and Soil</i> , 2018, 427, 39-51.	1.8	24
44	Reduction in Methane Emissions From Acidified Dairy Slurry Is Related to Inhibition of Methanosarcina Species. <i>Frontiers in Microbiology</i> , 2018, 9, 2806.	1.5	32
45	Spatial variability of microbial communities in a fractured sedimentary rock matrix impacted by a mixed organics plume. <i>Journal of Contaminant Hydrology</i> , 2018, 218, 110-119.	1.6	9
46	Sodium Persulfate and Potassium Permanganate Inhibit Methanogens and Methanogenesis in Stored Liquid Dairy Manure. <i>Journal of Environmental Quality</i> , 2018, 47, 786-794.	1.0	6
47	When too much isn't enough: Does current food production meet global nutritional needs?. <i>PLoS ONE</i> , 2018, 13, e0205683.	1.1	110
48	Impacts of surface-applied residues on N-cycling soil microbial communities in miscanthus and switchgrass cropping systems. <i>Applied Soil Ecology</i> , 2018, 130, 79-83.	2.1	19
49	Differences in field-scale N ₂ O flux linked to crop residue removal under two tillage systems in cold climates. <i>GCB Bioenergy</i> , 2017, 9, 666-680.	2.5	41
50	Quantification of bacterial non-specific acid (phoC) and alkaline (phoD) phosphatase genes in bulk and rhizosphere soil from organically managed soybean fields. <i>Applied Soil Ecology</i> , 2017, 111, 48-56.	2.1	140
51	Virus occurrence in private and public wells in a fractured dolostone aquifer in Canada. <i>Hydrogeology Journal</i> , 2017, 25, 1117-1136.	0.9	23
52	Dairy Manure Total Solid Levels Impact CH ₄ Flux and Abundance of Methanogenic Archaeal Communities. <i>Journal of Environmental Quality</i> , 2017, 46, 232-236.	1.0	13
53	Greenhouse Gas Emissions from Stored Dairy Slurry from Multiple Farms. <i>Journal of Environmental Quality</i> , 2016, 45, 1822-1828.	1.0	13
54	Soil denitrifier community size changes with land use change to perennial bioenergy cropping systems. <i>Soil</i> , 2016, 2, 523-535.	2.2	11

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55	Micrometeorological measurements over 3 years reveal differences in N ₂ O emissions between annual and perennial crops. <i>Global Change Biology</i> , 2016, 22, 1244-1255.	4.2	65
56	Metagenomic Comparison of Antibiotic Resistance Genes Associated with Liquid and Dewatered Biosolids. <i>Journal of Environmental Quality</i> , 2016, 45, 463-470.	1.0	9
57	Effects of 30 Years of Crop Rotation and Tillage on Bacterial and Archaeal Ammonia Oxidizers. <i>Journal of Environmental Quality</i> , 2016, 45, 940-948.	1.0	24
58	Improving plant biomass estimation in the field using partial least squares regression and ridge regression. <i>Botany</i> , 2016, 94, 501-508.	0.5	21
59	Soil microbial communities as potential regulators of in situ N ₂ O fluxes in annual and perennial cropping systems. <i>Soil Biology and Biochemistry</i> , 2016, 103, 262-273.	4.2	39
60	Residue management leading to higher field-scale N ₂ O flux is associated with different soil bacterial nitrifier and denitrifier gene community structures. <i>Applied Soil Ecology</i> , 2016, 108, 288-299.	2.1	19
61	Fungi from a non-native invasive plant increase its growth but have different growth effects on native plants. <i>Biological Invasions</i> , 2016, 18, 231-243.	1.2	25
62	Temporal dynamics of plant-soil feedback and root-associated fungal communities over 100 years of invasion by a non-native plant. <i>Journal of Ecology</i> , 2015, 103, 1557-1569.	1.9	25
63	Transport of <i>Escherichia coli</i> through a Thick Vadose Zone. <i>Journal of Environmental Quality</i> , 2015, 44, 1424-1434.	1.0	19
64	Molecular techniques and stable isotope ratios at natural abundance give complementary inferences about N ₂ O production pathways in an agricultural soil following a rainfall event. <i>Soil Biology and Biochemistry</i> , 2015, 88, 197-213.	4.2	54
65	Monitoring <i>Bacteroides</i> spp. markers, nutrients, metals and <i>Escherichia coli</i> in soil and leachate after land application of three types of municipal biosolids. <i>Water Research</i> , 2015, 70, 255-265.	5.3	12
66	Changes in arbuscular mycorrhizal fungal communities during invasion by an exotic invasive plant. <i>Acta Oecologica</i> , 2015, 67, 66-74.	0.5	16
67	Soil bacterial <i>phoD</i> gene abundance and expression in response to applied phosphorus and long-term management. <i>Soil Biology and Biochemistry</i> , 2015, 88, 137-147.	4.2	148
68	Effects of Glacial Sediment Type and Land Use on Nitrate Patterns in Groundwater. <i>Ground Water Monitoring and Remediation</i> , 2015, 35, 68-81.	0.6	23
69	Linking alkaline phosphatase activity with bacterial <i>phoD</i> gene abundance in soil from a long-term management trial. <i>Geoderma</i> , 2015, 257-258, 115-122.	2.3	173
70	Abundance and gene expression in nitrifier and denitrifier communities associated with a field scale spring thaw N ₂ O flux event. <i>Soil Biology and Biochemistry</i> , 2014, 73, 1-9.	4.2	82
71	Inside the root microbiome: Bacterial root endophytes and plant growth promotion. <i>American Journal of Botany</i> , 2013, 100, 1738-1750.	0.8	500
72	Isolate Identity Determines Plant Tolerance to Pathogen Attack in Assembled Mycorrhizal Communities. <i>PLoS ONE</i> , 2013, 8, e61329.	1.1	37

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73	The potential of soil amendments for restoring severely disturbed grasslands. <i>Applied Soil Ecology</i> , 2012, 60, 77-83.	2.1	91
74	The influence of tillage on the structure of rhizosphere and root-associated arbuscular mycorrhizal fungal communities. <i>Pedobiologia</i> , 2011, 54, 235-241.	0.5	52
75	Control of Salmonella on Sprouting Mung Bean and Alfalfa Seeds by Using a Biocontrol Preparation Based on Antagonistic Bacteria and Lytic Bacteriophages. <i>Journal of Food Protection</i> , 2010, 73, 9-17.	0.8	91
76	Season and management related changes in the diversity of nitrifying and denitrifying bacteria over winter and spring. <i>Applied Soil Ecology</i> , 2010, 44, 138-146.	2.1	85
77	Evaluation of a Biocontrol Preparation Consisting of <i>Enterobacter asburiae</i> JX1 and a Lytic Bacteriophage Cocktail To Suppress the Growth of <i>Salmonella Javiana</i> Associated with Tomatoes. <i>Journal of Food Protection</i> , 2009, 72, 2284-2292.	0.8	41
78	Influence of commercial inoculation with <i>Glomus intraradices</i> on the structure and functioning of an AM fungal community from an agricultural site. <i>Plant and Soil</i> , 2009, 317, 257-266.	1.8	64
79	Roundup Ready [®] soybean gene concentrations in field soil aggregate size classes. <i>FEMS Microbiology Letters</i> , 2009, 291, 175-179.	0.7	3
80	Separating the effect of crop from herbicide on soil microbial communities in glyphosate-resistant corn. <i>Pedobiologia</i> , 2009, 52, 253-262.	0.5	53
81	Effect of glyphosate on the tripartite symbiosis formed by <i>Glomus intraradices</i> , <i>Bradyrhizobium japonicum</i> , and genetically modified soybean. <i>Applied Soil Ecology</i> , 2009, 41, 128-136.	2.1	44
82	Detection of transgenic cp4 epsps genes in the soil food web. <i>Agronomy for Sustainable Development</i> , 2009, 29, 497-501.	2.2	22
83	Effects of genetically modified, herbicide-tolerant crops and their management on soil food web properties and crop litter decomposition. <i>Journal of Applied Ecology</i> , 2009, 46, 388-396.	1.9	53
84	Chapter 4 Recent Advances in the Microbial Safety of Fresh Fruits and Vegetables. <i>Advances in Food and Nutrition Research</i> , 2009, 57, 155-208.	1.5	155
85	Factors Affecting the Presence and Persistence of Plant DNA in the Soil Environment in Corn and Soybean Rotations. <i>Weed Science</i> , 2008, 56, 767-774.	0.8	7
86	Real-Time Polymerase Chain Reaction Monitoring of Recombinant DNA Entry into Soil from Decomposing Roundup Ready Leaf Biomass. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 6339-6347.	2.4	13
87	Mycorrhizal and Rhizobial Colonization of Genetically Modified and Conventional Soybeans. <i>Applied and Environmental Microbiology</i> , 2007, 73, 4365-4367.	1.4	46
88	An empirical approach to target DNA quantification in environmental samples using real-time polymerase chain reactions. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1956-1967.	4.2	7
89	Cycling of extracellular DNA in the soil environment. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2977-2991.	4.2	382
90	Analysis of the distribution and diversity in recent Hawaiian volcanic deposits of a putative carbon monoxide dehydrogenase large subunit gene. <i>Environmental Microbiology</i> , 2005, 7, 1405-1412.	1.8	23

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91	Molecular Analysis of Carbon Monoxide-Oxidizing Bacteria Associated with Recent Hawaiian Volcanic Deposits. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4242-4248.	1.4	62
92	Impact of Genetically Modified Crops on Soil and Plant-Associated Microbial Communities. <i>Journal of Environmental Quality</i> , 2004, 33, 806-815.	1.0	186
93	Seasonal Changes in the Rhizosphere Microbial Communities Associated with Field-Grown Genetically Modified Canola (<i>Brassica napus</i>). <i>Applied and Environmental Microbiology</i> , 2003, 69, 7310-7318.	1.4	210
94	Diversity of bacterial communities in the rhizosphere and root interior of field-grown genetically modified <i>Brassica napus</i> . <i>FEMS Microbiology Ecology</i> , 2001, 38, 1-9.	1.3	111