

Jennifer Pett-Ridge

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

9,511
citations

38742

50
h-index

46799

89
g-index

162
all docs

162
docs citations

162
times ranked

10432
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion of marginal land into switchgrass conditionally accrues soil carbon but reduces methane consumption. <i>ISME Journal</i> , 2022, 16, 10-25.	9.8	4
2	Decreased growth of wild soil microbes after 15 years of transplant-induced warming in a montane meadow. <i>Global Change Biology</i> , 2022, 28, 128-139.	9.5	16
3	NanoSIP: NanoSIMS Applications for Microbial Biology. <i>Methods in Molecular Biology</i> , 2022, 2349, 91-136.	0.9	75
4	Rock weathering controls the potential for soil carbon storage at a continental scale. <i>Biogeochemistry</i> , 2022, 157, 1-13.	3.5	29
5	Belowground allocation and dynamics of recently fixed plant carbon in a California annual grassland. <i>Soil Biology and Biochemistry</i> , 2022, 165, 108519.	8.8	25
6	Fast redox switches lead to rapid transformation of goethite in humid tropical soils: A Mössbauer spectroscopy study. <i>Soil Science Society of America Journal</i> , 2022, 86, 264-274.	2.2	4
7	Hyphae move matter and microbes to mineral microsites: Integrating the hyphosphere into conceptual models of soil organic matter stabilization. <i>Global Change Biology</i> , 2022, 28, 2527-2540.	9.5	68
8	Label-Free Multiphoton Imaging of Microbes in Root, Mineral, and Soil Matrices with Time-Gated Coherent Raman and Fluorescence Lifetime Imaging. <i>Environmental Science & Technology</i> , 2022, 56, 1994-2008.	10.0	14
9	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 4308-4324.	12.8	52
10	Defining the <i>Sphagnum</i> Core Microbiome across the North American Continent Reveals a Central Role for Diazotrophic Methanotrophs in the Nitrogen and Carbon Cycles of Boreal Peatland Ecosystems. <i>MBio</i> , 2022, 13, .	4.1	18
11	Life and death in the soil microbiome: how ecological processes influence biogeochemistry. <i>Nature Reviews Microbiology</i> , 2022, 20, 415-430.	28.6	282
12	Global distribution, formation and fate of mineral-associated soil organic matter under a changing climate: A trait-based perspective. <i>Functional Ecology</i> , 2022, 36, 1411-1429.	3.6	53
13	Deep-C storage: Biological, chemical and physical strategies to enhance carbon stocks in agricultural subsoils. <i>Soil Biology and Biochemistry</i> , 2022, 170, 108697.	8.8	57
14	Routes to roots: direct evidence of water transport by arbuscular mycorrhizal fungi to host plants. <i>New Phytologist</i> , 2022, 236, 210-221.	7.3	68
15	An essential role for tungsten in the ecology and evolution of a previously uncultivated lineage of anaerobic, thermophilic Archaea. <i>Nature Communications</i> , 2022, 13, .	12.8	16
16	A genomic catalog of Earth's microbiomes. <i>Nature Biotechnology</i> , 2021, 39, 499-509.	17.5	457
17	The Switchgrass Microbiome: A Review of Structure, Function, and Taxonomic Distribution. <i>Phytobiomes Journal</i> , 2021, 5, 14-28.	2.7	29
18	Managing Plant Microbiomes for Sustainable Biofuel Production. <i>Phytobiomes Journal</i> , 2021, 5, 3-13.	2.7	8

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19	VirION2: a short- and long-read sequencing and informatics workflow to study the genomic diversity of viruses in nature. PeerJ, 2021, 9, e11088.	2.0	25
20	Response to "Stochastic and deterministic interpretation of pool models". Global Change Biology, 2021, 27, e11-e12.	9.5	1
21	The temperature sensitivity of soil: microbial biodiversity, growth, and carbon mineralization. ISME Journal, 2021, 15, 2738-2747.	9.8	65
22	A trade-off between plant and soil carbon storage under elevated CO ₂ . Nature, 2021, 591, 599-603.	27.8	268
23	Differential effects of redox conditions on the decomposition of litter and soil organic matter. Biogeochemistry, 2021, 154, 1-15.	3.5	14
24	Protist diversity and community complexity in the rhizosphere of switchgrass are dynamic as plants develop. Microbiome, 2021, 9, 96.	11.1	54
25	The Functional Significance of Bacterial Predators. MBio, 2021, 12, .	4.1	48
26	Fungal-Bacterial Cooccurrence Patterns Differ between Arbuscular Mycorrhizal Fungi and Nonmycorrhizal Fungi across Soil Niches. MBio, 2021, 12, .	4.1	31
27	Plants and mycorrhizal symbionts acquire substantial soil nitrogen from gaseous ammonia transport. New Phytologist, 2021, 231, 1746-1757.	7.3	12
28	Nutrients cause consolidation of soil carbon flux to small proportion of bacterial community. Nature Communications, 2021, 12, 3381.	12.8	51
29	Response to "Connectivity and pore accessibility in models of soil carbon cycling". Global Change Biology, 2021, 27, e15-e16.	9.5	0
30	Stable-Isotope-Informed, Genome-Resolved Metagenomics Uncovers Potential Cross-Kingdom Interactions in Rhizosphere Soil. MSphere, 2021, 6, e0008521.	2.9	34
31	Root Carbon Interaction with Soil Minerals Is Dynamic, Leaving a Legacy of Microbially Derived Residues. Environmental Science & Technology, 2021, 55, 13345-13355.	10.0	13
32	Hydraulic redistribution by deeply rooted grasses and its ecohydrologic implications in the southern Great Plains of North America. Hydrological Processes, 2021, 35, e14366.	2.6	5
33	Active microbial biomass decreases, but microbial growth potential remains similar across soil depth profiles under deeply-vs. shallow-rooted plants. Soil Biology and Biochemistry, 2021, 162, 108401.	8.8	13
34	Rhizosphere Carbon Turnover from Cradle to Grave: The Role of Microbe-Plant Interactions. Rhizosphere Biology, 2021, , 51-73.	0.6	33
35	Active virus-host interactions at sub-freezing temperatures in Arctic peat soil. Microbiome, 2021, 9, 208.	11.1	52
36	Minnesota peat viromes reveal terrestrial and aquatic niche partitioning for local and global viral populations. Microbiome, 2021, 9, 233.	11.1	53

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37	iVirus 2.0: Cyberinfrastructure-supported tools and data to power DNA virus ecology. ISME Communications, 2021, 1, .	4.2	13
38	Community RNA-Seq: multi-kingdom responses to living versus decaying roots in soil. ISME Communications, 2021, 1, .	4.2	8
39	The role of soil redox conditions in microbial phosphorus cycling in humid tropical forests. Ecology, 2020, 101, e02928.	3.2	26
40	From pools to flow: The PROMISE framework for new insights on soil carbon cycling in a changing world. Global Change Biology, 2020, 26, 6631-6643.	9.5	57
41	Quantifying the effects of switchgrass (<i>Panicum virgatum</i>) on deep organic C stocks using natural abundance ¹⁴ C in three marginal soils. GCB Bioenergy, 2020, 12, 834-847.	5.6	26
42	Measurement Error and Resolution in Quantitative Stable Isotope Probing: Implications for Experimental Design. MSystems, 2020, 5, .	3.8	20
43	Experimental testing of hypotheses for temperature- and pH-based niche specialization of ammonia oxidizing archaea and bacteria. Environmental Microbiology, 2020, 22, 4032-4045.	3.8	21
44	Taxon-specific microbial growth and mortality patterns reveal distinct temporal population responses to rewetting in a California grassland soil. ISME Journal, 2020, 14, 1520-1532.	9.8	67
45	Microbial extracellular polysaccharide production and aggregate stability controlled by switchgrass (<i>Panicum virgatum</i>) root biomass and soil water potential. Soil Biology and Biochemistry, 2020, 143, 107742.	8.8	69
46	Niche differentiation is spatially and temporally regulated in the rhizosphere. ISME Journal, 2020, 14, 999-1014.	9.8	135
47	Continental-scale patterns of extracellular enzyme activity in the subsoil: an overlooked reservoir of microbial activity. Environmental Research Letters, 2020, 15, 1040a1.	5.2	32
48	Chip-SIP: Stable Isotope Probing Analyzed with rRNA-Targeted Microarrays and NanoSIMS. Methods in Molecular Biology, 2019, 2046, 71-87.	0.9	9
49	Manganese co-localizes with calcium and phosphorus in <i>Chlamydomonas acidocalcisomes</i> and is mobilized in manganese-deficient conditions. Journal of Biological Chemistry, 2019, 294, 17626-17641.	3.4	53
50	Evolutionary history constrains microbial traits across environmental variation. Nature Ecology and Evolution, 2019, 3, 1064-1069.	7.8	76
51	EcoFABs: advancing microbiome science through standardized fabricated ecosystems. Nature Methods, 2019, 16, 567-571.	19.0	90
52	System-level analysis of metabolic trade-offs during anaerobic photoheterotrophic growth in <i>Rhodospseudomonas palustris</i> . BMC Bioinformatics, 2019, 20, 233.	2.6	18
53	Predictive genomic traits for bacterial growth in culture versus actual growth in soil. ISME Journal, 2019, 13, 2162-2172.	9.8	66
54	Gut anatomical properties and microbial functional assembly promote lignocellulose deconstruction and colony subsistence of a wood-feeding beetle. Nature Microbiology, 2019, 4, 864-875.	13.3	68

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55	Ecological and Genomic Attributes of Novel Bacterial Taxa That Thrive in Subsurface Soil Horizons. <i>MBio</i> , 2019, 10, .	4.1	108
56	Shotgun metagenome data of a defined mock community using Oxford Nanopore, PacBio and Illumina technologies. <i>Scientific Data</i> , 2019, 6, 285.	5.3	75
57	Metatranscriptomic reconstruction reveals RNA viruses with the potential to shape carbon cycling in soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25900-25908.	7.1	165
58	Characterizing Chemoautotrophy and Heterotrophy in Marine Archaea and Bacteria With Single-Cell Multi-isotope NanoSIP. <i>Frontiers in Microbiology</i> , 2019, 10, 2682.	3.5	37
59	Multimodal LA-ICP-MS and nanoSIMS imaging enables copper mapping within photoreceptor megamitochondria in a zebrafish model of Menkes disease. <i>Metalomics</i> , 2018, 10, 474-485.	2.4	27
60	Estimating taxon-specific population dynamics in diverse microbial communities. <i>Ecosphere</i> , 2018, 9, e02090.	2.2	85
61	Carbon Sink Strength of Subsurface Horizons in Brazilian Oxisols. <i>Soil Science Society of America Journal</i> , 2018, 82, 76-86.	2.2	1
62	Soil Oxygen Limits Microbial Phosphorus Utilization in Humid Tropical Forest Soils. <i>Soil Systems</i> , 2018, 2, 65.	2.6	11
63	Redox Fluctuations Control the Coupled Cycling of Iron and Carbon in Tropical Forest Soils. <i>Environmental Science & Technology</i> , 2018, 52, 14129-14139.	10.0	96
64	Potential for Iron Reduction Increases with Rainfall in Montane Basaltic Soils of Hawaii. <i>Soil Science Society of America Journal</i> , 2018, 82, 176-185.	2.2	10
65	Metagenomics reveals niche partitioning within the phototrophic zone of a microbial mat. <i>PLoS ONE</i> , 2018, 13, e0202792.	2.5	5
66	Plant roots alter microbial functional genes supporting root litter decomposition. <i>Soil Biology and Biochemistry</i> , 2018, 127, 90-99.	8.8	35
67	Microbial community assembly differs across minerals in a rhizosphere microcosm. <i>Environmental Microbiology</i> , 2018, 20, 4444-4460.	3.8	77
68	Attachment between heterotrophic bacteria and microalgae influences symbiotic microscale interactions. <i>Environmental Microbiology</i> , 2018, 20, 4385-4400.	3.8	55
69	Phosphorus Fractionation Responds to Dynamic Redox Conditions in a Humid Tropical Forest Soil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3016-3027.	3.0	30
70	Using stable isotopes to explore root-microbe-mineral interactions in soil. <i>Rhizosphere</i> , 2017, 3, 244-253.	3.0	93
71	Phylogenetically conserved resource partitioning in the coastal microbial loop. <i>ISME Journal</i> , 2017, 11, 2781-2792.	9.8	82
72	Molybdenum-Based Diazotrophy in a Sphagnum Peatland in Northern Minnesota. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	46

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73	Metagenomic analysis of intertidal hypersaline microbial mats from Elkhorn Slough, California, grown with and without molybdate. <i>Standards in Genomic Sciences</i> , 2017, 12, 67.	1.5	5
74	Measuring Cyanobacterial Metabolism in Biofilms with NanoSIMS Isotope Imaging and Scanning Electron Microscopy (SEM). <i>Bio-protocol</i> , 2017, 7, e2263.	0.4	2
75	Light Regimes Shape Utilization of Extracellular Organic C and N in a Cyanobacterial Biofilm. <i>MBio</i> , 2016, 7, .	4.1	18
76	Permanent draft genome of strain ESFC-1: ecological genomics of a newly discovered lineage of filamentous diazotrophic cyanobacteria. <i>Standards in Genomic Sciences</i> , 2016, 11, 53.	1.5	4
77	Tracking microbial interactions with NanoSIMS. <i>Current Opinion in Biotechnology</i> , 2016, 41, 114-121.	6.6	117
78	Climate and edaphic controllers influence rhizosphere community assembly for a wild annual grass. <i>Ecology</i> , 2016, 97, 1307-1318.	3.2	111
79	Proteomic Stable Isotope Probing Reveals Taxonomically Distinct Patterns in Amino Acid Assimilation by Coastal Marine Bacterioplankton. <i>MSystems</i> , 2016, 1, .	3.8	43
80	Evidence for foliar endophytic nitrogen fixation in a widely distributed subalpine conifer. <i>New Phytologist</i> , 2016, 210, 657-668.	7.3	135
81	Global metagenomic survey reveals a new bacterial candidate phylum in geothermal springs. <i>Nature Communications</i> , 2016, 7, 10476.	12.8	189
82	Cyanobacterial reuse of extracellular organic carbon in microbial mats. <i>ISME Journal</i> , 2016, 10, 1240-1251.	9.8	103
83	Metagenome Sequencing of a Coastal Marine Microbial Community from Monterey Bay, California. <i>Genome Announcements</i> , 2015, 3, .	0.8	6
84	Mineral protection of soil carbon counteracted by root exudates. <i>Nature Climate Change</i> , 2015, 5, 588-595.	18.8	694
85	Successional Trajectories of Rhizosphere Bacterial Communities over Consecutive Seasons. <i>MBio</i> , 2015, 6, e00746.	4.1	232
86	Long-term litter decomposition controlled by manganese redox cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5253-60.	7.1	168
87	Revisiting N ₂ fixation in Guerrero Negro intertidal microbial mats with a functional single-cell approach. <i>ISME Journal</i> , 2015, 9, 485-496.	9.8	69
88	Fermentation couples Chloroflexi and sulfate-reducing bacteria to Cyanobacteria in hypersaline microbial mats. <i>Frontiers in Microbiology</i> , 2014, 5, 61.	3.5	61
89	Identification of <i>D</i> esulfobacterales as primary hydrogenotrophs in a complex microbial mat community. <i>Geobiology</i> , 2014, 12, 221-230.	2.4	30
90	Subcellular metal imaging identifies dynamic sites of Cu accumulation in <i>Chlamydomonas</i> . <i>Nature Chemical Biology</i> , 2014, 10, 1034-1042.	8.0	143

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91	Compartmentalized microbial composition, oxygen gradients and nitrogen fixation in the gut of <i>Odontotaenius disjunctus</i> . ISME Journal, 2014, 8, 6-18.	9.8	80
92	Phylogenetic Patterns in the Microbial Response to Resource Availability: Amino Acid Incorporation in San Francisco Bay. PLoS ONE, 2014, 9, e95842.	2.5	52
93	Advances in the Analysis of Biogeochemical Interfaces. Advances in Agronomy, 2013, , 1-46.	5.2	69
94	Taxon-specific C/N relative use efficiency for amino acids in an estuarine community. FEMS Microbiology Ecology, 2013, 83, 402-412.	2.7	28
95	An arbuscular mycorrhizal fungus significantly modifies the soil bacterial community and nitrogen cycling during litter decomposition. Environmental Microbiology, 2013, 15, 1870-1881.	3.8	288
96	Influence of oxic/anoxic fluctuations on ammonia oxidizers and nitrification potential in a wet tropical soil. FEMS Microbiology Ecology, 2013, 85, 179-194.	2.7	62
97	Draft Genome Sequence of an Oscillatorian Cyanobacterium, Strain ESFC-1. Genome Announcements, 2013, 1, .	0.8	5
98	Anoxic carbon flux in photosynthetic microbial mats as revealed by metatranscriptomics. ISME Journal, 2013, 7, 817-829.	9.8	57
99	Correlated SEM, FIB-SEM, TEM, and NanoSIMS Imaging of Microbes from the Hindgut of a Lower Termite: Methods for <i>In Situ</i> Functional and Ecological Studies of Uncultivable Microbes. Microscopy and Microanalysis, 2013, 19, 1490-1501.	0.4	38
100	Identification of a novel cyanobacterial group as active diazotrophs in a coastal microbial mat using NanoSIMS analysis. ISME Journal, 2012, 6, 1427-1439.	9.8	66
101	Nano-scale investigation of the association of microbial nitrogen residues with iron (hydr)oxides in a forest soil O-horizon. Geochimica Et Cosmochimica Acta, 2012, 95, 213-226.	3.9	107
102	High-throughput isotopic analysis of RNA microarrays to quantify microbial resource use. ISME Journal, 2012, 6, 1210-1221.	9.8	70
103	Syntrophic metabolism of a co-culture containing <i>Clostridium cellulolyticum</i> and <i>Rhodospseudomonas palustris</i> for hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 11719-11726.	7.1	30
104	NanoSIP: NanoSIMS Applications for Microbial Biology. Methods in Molecular Biology, 2012, 881, 375-408.	0.9	90
105	Hydrogen production in photosynthetic microbial mats in the Elkhorn Slough estuary, Monterey Bay. ISME Journal, 2012, 6, 863-874.	9.8	48
106	Integrating microbial ecology into ecosystem models: challenges and priorities. Biogeochemistry, 2012, 109, 7-18.	3.5	206
107	A Bacterium That Can Grow by Using Arsenic Instead of Phosphorus. Science, 2011, 332, 1163-1166.	12.6	422
108	Twelve testable hypotheses on the geobiology of weathering. Geobiology, 2011, 9, 140-165.	2.4	133

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109	Nitrogen Mineralization and Assimilation at Millimeter Scales. <i>Methods in Enzymology</i> , 2011, 496, 91-114.	1.0	7
110	Response to Comments on "A Bacterium That Can Grow Using Arsenic Instead of Phosphorus" <i>Science</i> , 2011, 332, 1149-1149.	12.6	23
111	Fixation and fate of C and N in the cyanobacterium <i>Trichodesmium</i> using nanometer-scale secondary ion mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6345-6350.	7.1	156
112	Linking Microbial Phylogeny to Metabolic Activity at the Single-Cell Level by Using Enhanced Element Labeling-Catalyzed Reporter Deposition Fluorescence In Situ Hybridization (EL-FISH) and NanoSIMS. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3143-3150.	3.1	223
113	PLANT AND MICROBIAL CONTROLS ON NITROGEN RETENTION AND LOSS IN A HUMID TROPICAL FOREST. <i>Ecology</i> , 2008, 89, 3030-3040.	3.2	146
114	Natural abundance ¹⁵ N in soil and litter across a nitrate-output gradient in New Hampshire. <i>Forest Ecology and Management</i> , 2007, 251, 217-230.	3.2	44
115	Carbon and nitrogen fixation and metabolite exchange in and between individual cells of <i>Anabaena oscillarioides</i> . <i>ISME Journal</i> , 2007, 1, 354-360.	9.8	148
116	Nano-scale secondary ion mass spectrometry " A new analytical tool in biogeochemistry and soil ecology: A review article. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1835-1850.	8.8	178
117	Redox Fluctuations Frame Microbial Community Impacts on N-cycling Rates in a Humid Tropical Forest Soil. <i>Biogeochemistry</i> , 2006, 81, 95-110.	3.5	152
118	Redox Fluctuation Structures Microbial Communities in a Wet Tropical Soil. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6998-7007.	3.1	216
119	Evaluating the source of streamwater nitrate using ¹⁵ N and ¹⁸ O in nitrate in two watersheds in New Hampshire, USA. <i>Hydrological Processes</i> , 2004, 18, 2699-2712.	2.6	122
120	Survival, Growth, and Ecosystem Dynamics of Displaced Bromeliads in a Montane Tropical Forest1. <i>Biotropica</i> , 2002, 34, 211-224.	1.6	19