

Vanessa Bailey

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

4,853
citations

186265
28
h-index

114465
63
g-index

66
all docs

66
docs citations

66
times ranked

6855
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms controlling soil carbon turnover and their potential application for enhancing carbon sequestration. <i>Climatic Change</i> , 2007, 80, 5-23.	3.6	567
2	Fungal-to-bacterial ratios in soils investigated for enhanced C sequestration. <i>Soil Biology and Biochemistry</i> , 2002, 34, 997-1007.	8.8	474
3	The effect of young biochar on soil respiration. <i>Soil Biology and Biochemistry</i> , 2010, 42, 2345-2347.	8.8	444
4	Globally rising soil heterotrophic respiration over recent decades. <i>Nature</i> , 2018, 560, 80-83.	27.8	360
5	Reconciling apparent variability in effects of biochar amendment on soil enzyme activities by assay optimization. <i>Soil Biology and Biochemistry</i> , 2011, 43, 296-301.	8.8	351
6	c-Type Cytochrome-Dependent Formation of U(IV) Nanoparticles by <i>Shewanella oneidensis</i> . <i>PLoS Biology</i> , 2006, 4, e268.	5.6	310
7	Relationships between soil microbial biomass determined by chloroform fumigation-extraction, substrate-induced respiration, and phospholipid fatty acid analysis. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1385-1389.	8.8	205
8	Novelty and Uniqueness Patterns of Rare Members of the Soil Biosphere. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5422-5428.	3.1	189
9	Representing the function and sensitivity of coastal interfaces in Earth system models. <i>Nature Communications</i> , 2020, 11, 2458.	12.8	153
10	Enhancement of Carbon Sequestration in US Soils. <i>BioScience</i> , 2004, 54, 895.	4.9	138
11	A moisture function of soil heterotrophic respiration that incorporates microscale processes. <i>Nature Communications</i> , 2018, 9, 2562.	12.8	124
12	Linking microbial community structure to β -glucosidic function in soil aggregates. <i>ISME Journal</i> , 2013, 7, 2044-2053.	9.8	110
13	Differences in soluble organic carbon chemistry in pore waters sampled from different pore size domains. <i>Soil Biology and Biochemistry</i> , 2017, 107, 133-143.	8.8	107
14	What do we know about soil carbon destabilization?. <i>Environmental Research Letters</i> , 2019, 14, 083004.	5.2	106
15	Shifts in pore connectivity from precipitation versus groundwater rewetting increases soil carbon loss after drought. <i>Nature Communications</i> , 2017, 8, 1335.	12.8	88
16	Intra-annual changes in biomass, carbon, and nitrogen dynamics at 4-year old switchgrass field trials in west Tennessee, USA. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 177-184.	5.3	72
17	Novel antibiotics as inhibitors for the selective respiratory inhibition method of measuring fungal:bacterial ratios in soil. <i>Biology and Fertility of Soils</i> , 2003, 38, 154-160.	4.3	68
18	Modeling Microbial Dynamics in Heterogeneous Environments: Growth on Soil Carbon Sources. <i>Microbial Ecology</i> , 2012, 63, 883-897.	2.8	66

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19	Soil carbon cycling proxies: Understanding their critical role in predicting climate change feedbacks. <i>Global Change Biology</i> , 2018, 24, 895-905.	9.5	61
20	Soil Respiration and Bacterial Structure and Function after 17 Years of a Reciprocal Soil Transplant Experiment. <i>PLoS ONE</i> , 2016, 11, e0150599.	2.5	60
21	Distribution of two C cycle enzymes in soil aggregates of a prairie chronosequence. <i>Biology and Fertility of Soils</i> , 2005, 42, 17-23.	4.3	55
22	Micrometer-scale physical structure and microbial composition of soil macroaggregates. <i>Soil Biology and Biochemistry</i> , 2013, 65, 60-68.	8.8	54
23	Pore-scale investigation on the response of heterotrophic respiration to moisture conditions in heterogeneous soils. <i>Biogeochemistry</i> , 2016, 131, 121-134.	3.5	54
24	Measurements of microbial community activities in individual soil macroaggregates. <i>Soil Biology and Biochemistry</i> , 2012, 48, 192-195.	8.8	43
25	Response of <i>Alamo</i> switchgrass tissue chemistry and biomass to nitrogen fertilization in West Tennessee, USA. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 289-297.	5.3	42
26	Soil texture and environmental conditions influence the biogeochemical responses of soils to drought and flooding. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	35
27	Spatial distribution of prokaryotic communities in hypersaline soils. <i>Scientific Reports</i> , 2019, 9, 1769.	3.3	33
28	Soil carbon dynamics during drying vs. rewetting: Importance of antecedent moisture conditions. <i>Soil Biology and Biochemistry</i> , 2021, 156, 108165.	8.8	30
29	Soil pore network response to freeze-thaw cycles in permafrost aggregates. <i>Geoderma</i> , 2022, 411, 115674.	5.1	30
30	The initial rate of C substrate utilization and longer-term soil C storage. <i>Biology and Fertility of Soils</i> , 2007, 44, 315-320.	4.3	27
31	Multiscale Investigation on Biofilm Distribution and Its Impact on Macroscopic Biogeochemical Reaction Rates. <i>Water Resources Research</i> , 2017, 53, 8698-8714.	4.2	26
32	Historically inconsistent productivity and respiration fluxes in the global terrestrial carbon cycle. <i>Nature Communications</i> , 2022, 13, 1733.	12.8	25
33	A Unified Multiscale Model for Pore-Scale Flow Simulations in Soils. <i>Soil Science Society of America Journal</i> , 2014, 78, 108-118.	2.2	23
34	Temperature and moisture effects on greenhouse gas emissions from deep active-layer boreal soils. <i>Biogeosciences</i> , 2016, 13, 6669-6681.	3.3	22
35	Constrained tree growth and gas exchange of seawater-exposed forests in the Pacific Northwest, USA. <i>Journal of Ecology</i> , 2019, 107, 2541-2552.	4.0	21
36	Micro on a macroscale: relating microbial-scale soil processes to global ecosystem function. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	2.7	21

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37	Biotic and Abiotic Reduction and Solubilization of Pu(IV)O ₂ ·xH ₂ O(am) as Affected by Anthraquinone-2,6-disulfonate (AQDS) and Ethylenediaminetetraacetate (EDTA). <i>Environmental Science & Technology</i> , 2012, 46, 2132-2140.	10.0	20
38	Spatial gradients in the characteristics of soil-carbon fractions are associated with abiotic features but not microbial communities. <i>Biogeosciences</i> , 2019, 16, 3911-3928.	3.3	19
39	A practical method for assessing cadmium levels in soil using the DTPA extraction technique with graphite furnace analysis. <i>Communications in Soil Science and Plant Analysis</i> , 1995, 26, 961-968.	1.4	17
40	Moderate forest disturbance as a stringent test for gap and big-leaf models. <i>Biogeosciences</i> , 2015, 12, 513-526.	3.3	16
41	Longitudinal Gradients in Tree Stem Greenhouse Gas Concentrations Across Six Pacific Northwest Coastal Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1401-1412.	3.0	16
42	On the use of air temperature and precipitation as surrogate predictors in soil respiration modelling. <i>European Journal of Soil Science</i> , 2022, 73, .	3.9	14
43	Temporal dynamics of CO ₂ and CH ₄ loss potentials in response to rapid hydrological shifts in tidal freshwater wetland soils. <i>Ecological Engineering</i> , 2018, 114, 104-114.	3.6	13
44	Microscale water distribution and its effects on organic carbon decomposition in unsaturated soils. <i>Science of the Total Environment</i> , 2018, 644, 1036-1043.	8.0	12
45	The influence of increasing atmospheric CO ₂ , temperature, and vapor pressure deficit on seawater-induced tree mortality. <i>New Phytologist</i> , 2022, 235, 1767-1779.	7.3	12
46	Simulations of ecosystem hydrological processes using a unified multi-scale model. <i>Ecological Modelling</i> , 2015, 296, 93-101.	2.5	10
47	Declining carbohydrate content of Sitka-spruce trees dying from seawater exposure. <i>Plant Physiology</i> , 2021, 185, 1682-1696.	4.8	10
48	Seawater exposure causes hydraulic damage in dying Sitka-spruce trees. <i>Plant Physiology</i> , 2021, 187, 873-885.	4.8	10
49	Phospholipid fatty acid biomarkers in a freshwater periphyton community exposed to uranium: discovery by non-linear statistical learning. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 64-71.	1.7	9
50	Changes in carbon and nitrogen metabolism during seawater-induced mortality of <i>Picea sitchensis</i> trees. <i>Tree Physiology</i> , 2021, 41, 2326-2340.	3.1	8
51	Spectral signatures for the classification of microbial species using Raman spectra. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 563-572.	3.7	7
52	Tree growth, transpiration, and water-use efficiency between shoreline and upland red maple (<i>Acer</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.8	7
53	Antecedent conditions determine the biogeochemical response of coastal soils to seawater exposure. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108104.	8.8	7
54	Spatial access and resource limitations control carbon mineralization in soils. <i>Soil Biology and Biochemistry</i> , 2021, 162, 108427.	8.8	7

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55	The Impact of Freeze–Thaw History on Soil Carbon Response to Experimental Freeze–Thaw Cycles. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	7
56	Revisiting diffusion-based moisture functions: why do they fail?. <i>Soil Biology and Biochemistry</i> , 2022, 165, 108525.	8.8	6
57	Disturbance legacies regulate coastal forest soil stability to changing salinity and inundation: A soil transplant experiment. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108675.	8.8	6
58	MetFish: a Metabolomics Pipeline for Studying Microbial Communities in Chemically Extreme Environments. <i>MSystems</i> , 2021, 6, e0105820.	3.8	5
59	Direct detection of soil mRNAs using targeted microarrays for genes associated with lignin degradation. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1793-1799.	8.8	4
60	Management of Soil Biota and Their Processes. , 2015, , 539-572.		4
61	Severe declines in hydraulic capacity and associated carbon starvation drive mortality in seawater exposed Sitka-spruce (<i>Picea sitchensis</i>) trees. <i>Environmental Research Communications</i> , 2022, 4, 035005.	2.3	4
62	¹⁴ C Cycling in lignocellulose-amended soils: predicting long-term C fate from short-term indicators. <i>Biology and Fertility of Soils</i> , 2006, 42, 198-206.	4.3	3
63	Water–dispersible nanocolloids and higher temperatures promote the release of carbon from riparian soil. <i>Vadose Zone Journal</i> , 2020, 19, e20077.	2.2	2