Sebastian Behrens

List of Publications by Year
in descending order

44	4,562	136740 32	233125 45
papers	citations	h-index	g-index

45	45	45	6018
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deciphering the Variability of Stable Isotope (C, Cl) Fractionation of Tetrachloroethene Biotransformation by <i>Desulfitobacterium</i> strains Carrying Different Reductive Dehalogenases Enzymes. Environmental Science & Technology, 2020, 54, 1593-1602.	4.6	10
2	Seasonal Dynamics of the Activated Sludge Microbiome in Sequencing Batch Reactors, Assessed Using 16S rRNA Transcript Amplicon Sequencing. Applied and Environmental Microbiology, 2020, 86, .	1.4	26
3	Insights into Carbon Metabolism Provided by Fluorescence<i>In Situ</i>Hybridization-Secondary Ion Mass Spectrometry Imaging of an Autotrophic, Nitrate-Reducing, Fe(II)-Oxidizing Enrichment Culture. Applied and Environmental Microbiology, 2018, 84, .	1.4	32
4	Growth and Population Dynamics of the Anaerobic Fe(II)-Oxidizing and Nitrate-Reducing Enrichment Culture KS. Applied and Environmental Microbiology, 2018, 84, .	1.4	46
5	Biochar affects community composition of nitrous oxide reducers in a field experiment. Soil Biology and Biochemistry, 2018, 119, 143-151.	4.2	46
6	Effect of biochar amendment on compost organic matter composition following aerobic composting of manure. Science of the Total Environment, 2018, 613-614, 20-29.	3.9	96
7	Organic coating on biochar explains its nutrient retention and stimulation of soil fertility. Nature Communications, 2017, 8, 1089.	5.8	371
8	Soil biochar amendment affects the diversity of nosZ transcripts: Implications for N2O formation. Scientific Reports, 2017, 7, 3338.	1.6	55
9	Long term farming systems affect soils potential for N2O production and reduction processes under denitrifying conditions. Soil Biology and Biochemistry, 2017, 114, 31-41.	4.2	34
10	Tillage system affects fertilizer-induced nitrous oxide emissions. Biology and Fertility of Soils, 2017, 53, 49-59.	2.3	37
11	Does soil aging affect the N₂O mitigation potential of biochar? A combined microcosm and field study. GCB Bioenergy, 2017, 9, 953-964.	2.5	65
12	Nitrate capture and slow release in biochar amended compost and soil. PLoS ONE, 2017, 12, e0171214.	1.1	128
13	Gas entrapment and microbial N2O reduction reduce N2O emissions from a biochar-amended sandy clay loam soil. Scientific Reports, 2016, 6, 39574.	1.6	65
14	Ribosomal Tag Pyrosequencing of DNA and RNA Reveals â€œRareâ€•Taxa with High Protein Synthesis Potential in the Sediment of a Hypersaline Lake in Western Australia. Geomicrobiology Journal, 2016, 33, 426-440.	1.0	22
15	Soil biochar amendment shapes the composition of N2O-reducing microbial communities. Science of the Total Environment, 2016, 562, 379-390.	3.9	117
16	Metagenomic Analyses of the Autotrophic Fe(II)-Oxidizing, Nitrate-Reducing Enrichment Culture KS. Applied and Environmental Microbiology, 2016, 82, 2656-2668.	1.4	116
17	Coexistence of Microaerophilic, Nitrate-Reducing, and Phototrophic Fe(II) Oxidizers and Fe(III) Reducers in Coastal Marine Sediment. Applied and Environmental Microbiology, 2016, 82, 1433-1447.	1.4	76
18	Resiliency of Stable Isotope Fractionation (Î´¹³C and Î´³⁷Cl) of Trichloroethene to Bacterial Growth Physiology and Expression of Key Enzymes. Environmental Science & Technology, 2015, 49, 13230-13237.	4.6	19

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19	Microbial community composition of a household sand filter used for arsenic, iron, and manganese removal from groundwater in Vietnam. Chemosphere, 2015, 138, 47-59.	4.2	84
20	Rhizosphere Microbial Community Composition Affects Cadmium and Zinc Uptake by the Metal-Hyperaccumulating Plant Arabidopsis halleri. Applied and Environmental Microbiology, 2015, 81, 2173-2181.	1.4	122
21	Secondary Mineral Formation During Ferrihydrite Reduction by<i>Shewanella oneidensis</i>MR-1 Depends on Incubation Vessel Orientation and Resulting Gradients of Cells, Fe²⁺and Fe Minerals. Geomicrobiology Journal, 2015, 32, 878-889.	1.0	23
22	Arsenic removal from drinking water by a household sand filter in Vietnam â€" Effect of filter usage practices on arsenic removal efficiency and microbiological water quality. Science of the Total Environment, 2015, 502, 526-536.	3.9	50
23	Linking N2O emissions from biochar-amended soil to the structure and function of the N-cycling microbial community. ISME Journal, 2014, 8, 660-674.	4.4	484
24	Impact of organic carbon and iron bioavailability on the magnetic susceptibility of soils. Geochimica Et Cosmochimica Acta, 2014, 128, 44-57.	1.6	27
25	The interplay of microbially mediated and abiotic reactions in the biogeochemical Fe cycle. Nature Reviews Microbiology, 2014, 12, 797-808.	13.6	627
26	High spatial resolution of distribution and interconnections between <scp>F</scp>eâ€•and <scp>N</scp>â€redox processes in profundal lake sediments. Environmental Microbiology, 2014, 16, 3287-3303.	1.8	44
27	Comparison of Humic Substance- and Fe(III)-Reducing Microbial Communities in Anoxic Aquifers. Geomicrobiology Journal, 2014, 31, 917-928.	1.0	19
28	Biochar as an Electron Shuttle between Bacteria and Fe(III) Minerals. Environmental Science and Technology Letters, 2014, 1, 339-344.	3.9	432
29	Magnetite Formation by the Novel Fe(III)-reducing<i>Geothrix fermentans</i>Strain HradG1 Isolated from a Hydrocarbon-Contaminated Sediment with Increased Magnetic Susceptibility. Geomicrobiology Journal, 2013, 30, 863-873.	1.0	30
30	Organic Carbon and Reducing Conditions Lead to Cadmium Immobilization by Secondary Fe Mineral Formation in a pH-Neutral Soil. Environmental Science & Technology, 2013, 47, 13430-13439.	4.6	114
31	Fate of Cd during Microbial Fe(III) Mineral Reduction by a Novel and Cd-Tolerant <i>Geobacter</i> Species. Environmental Science & Technology, 2013, 47, 14099-14109.	4.6	113
32	Abundance, Distribution, and Activity of Fe(II)-Oxidizing and Fe(III)-Reducing Microorganisms in Hypersaline Sediments of Lake Kasin, Southern Russia. Applied and Environmental Microbiology, 2012, 78, 4386-4399.	1.4	86
33	Influence of Seasonal and Geochemical Changes on the Geomicrobiology of an Iron Carbonate Mineral Water Spring. Applied and Environmental Microbiology, 2012, 78, 7185-7196.	1.4	60
34	Linking environmental processes to the <i>in situ</i> functioning of microorganisms by highâ€resolution secondary ion mass spectrometry (NanoSIMS) and scanning transmission Xâ€ray microscopy (STXM). Environmental Microbiology, 2012, 14, 2851-2869.	1.8	81
35	Comparison of lactate, formate, and propionate as hydrogen donors for the reductive dehalogenation of trichloroethene in a continuous-flow column. Journal of Contaminant Hydrology, 2010, 113, 77-92.	1.6	53
36	Ecosystem functioning from a geomicrobiological perspective â€" a conceptual framework for biogeochemical iron cycling. Environmental Chemistry, 2010, 7, 399.	0.7	32

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37	Continuous-flow column study of reductive dehalogenation of PCE upon bioaugmentation with the Evanite enrichment culture. Journal of Contaminant Hydrology, 2008, 100, 11-21.	1.6	38
38	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. Applied and Environmental Microbiology, 2008, 74, 3143-3150.	1.4	223
39	Monitoring Abundance and Expression of â€œ <i>Dehalococcoides</i> â€•Species Chloroethene-Reductive Dehalogenases in a Tetrachloroethene-Dechlorinating Flow Column. Applied and Environmental Microbiology, 2008, 74, 5695-5703.	1.4	133
40	Graphical representation of ribosomal RNA probe accessibility data using ARB software package. BMC Bioinformatics, 2005, 6, 61.	1.2	42
41	The Effect of Nucleobase-Specific Fluorescence Quenching on In Situ Hybridization with rRNA-Targeted Oligonucleotide Probes. Systematic and Applied Microbiology, 2004, 27, 565-572.	1.2	13
42	In Situ Accessibility of Small-Subunit rRNA of Members of the Domains Bacteria , Archaea , and Eucarya to Cy3-Labeled Oligonucleotide Probes. Applied and Environmental Microbiology, 2003, 69, 1748-1758.	1.4	152
43	In Situ Accessibility of Saccharomyces cerevisiae 26S rRNA to Cy3-Labeled Oligonucleotide Probes Comprising the D1 and D2 Domains. Applied and Environmental Microbiology, 2003, 69, 2899-2905.	1.4	43
44	Is the In Situ Accessibility of the 16S rRNA of Escherichia coli for Cy3-Labeled Oligonucleotide Probes Predicted by a Three-Dimensional Structure Model of the 30S Ribosomal Subunit?. Applied and Environmental Microbiology, 2003, 69, 4935-4941.	1.4	73