Sebastian Reinhold SÃ¸rensen

List of Publications by Year
in descending order

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41 papers	2,004 citations	257450 24 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	2017 citing authors

#	Article	IF	Citations
1	Biodegradation: Updating the Concepts of Control for Microbial Cleanup in Contaminated Aquifers. Environmental Science & Technology, 2015, 49, 7073-7081.	10.0	211
2	Microbial degradation of isoproturon and related phenylurea herbicides in and below agricultural fields. FEMS Microbiology Ecology, 2003, 45, 1-11.	2.7	189
3	In-Field Spatial Variability in the Degradation of the Phenyl-Urea Herbicide Isoproturon Is the Result of Interactions between Degradative Sphingomonas spp. and Soil pH. Applied and Environmental Microbiology, 2003, 69, 827-834.	3.1	141
4	Rapid Mineralization of the Phenylurea Herbicide Diuron by Variovorax sp. Strain SRS16 in Pure Culture and within a Two-Member Consortium. Applied and Environmental Microbiology, 2008, 74, 2332-2340.	3.1	137
5	Isolation from Agricultural Soil and Characterization of a Sphingomonas sp. Able To Mineralize the Phenylurea Herbicide Isoproturon. Applied and Environmental Microbiology, 2001, 67, 5403-5409.	3.1	134
6	Degradation and Mineralization of Nanomolar Concentrations of the Herbicide Dichlobenil and Its Persistent Metabolite 2,6-Dichlorobenzamide by Aminobacter spp. Isolated from Dichlobenil-Treated Soils. Applied and Environmental Microbiology, 2007, 73, 399-406.	3.1	88
7	Abiotic and Biotic Processes Governing the Fate of Phenylurea Herbicides in Soils: A Review. Critical Reviews in Environmental Science and Technology, 2015, 45, 1947-1998.	12.8	77
8	Growth in Coculture Stimulates Metabolism of the Phenylurea Herbicide Isoproturon by Sphingomonas sp. Strain SRS2. Applied and Environmental Microbiology, 2002, 68, 3478-3485.	3.1	76
9	Mecoprop, Isoproturon, and Atrazine in and above a Sandy Aquifer:Â Vertical Distribution of Mineralization Potential. Environmental Science & Technology, 2000, 34, 2426-2430.	10.0	75
10	A Novel Hydrolase Identified by Genomic-Proteomic Analysis of Phenylurea Herbicide Mineralization by Variovorax sp. Strain SRS16. Applied and Environmental Microbiology, 2011, 77, 8754-8764.	3.1	70
11	Elucidating the Key Member of a Linuron-Mineralizing Bacterial Community by PCR and Reverse Transcription-PCR Denaturing Gradient Gel Electrophoresis 16S rRNA Gene Fingerprinting and Cultivation. Applied and Environmental Microbiology, 2005, 71, 4144-4148.	3.1	68
12	Analysing transformation products of herbicide residues in environmental samples. Water Research, 2001, 35, 1371-1378.	11.3	62
13	C, N, and H Isotope Fractionation of the Herbicide Isoproturon Reflects Different Microbial Transformation Pathways. Environmental Science & Technology, 2010, 44, 2372-2378.	10.0	56
14	Bioaugmentation of rapid sand filters by microbiome priming with a nitrifying consortium will optimize production of drinking water from groundwater. Water Research, 2018, 129, 1-10.	11.3	46
15	The Novel Bacterial N -Demethylase PdmAB Is Responsible for the Initial Step of N , N -Dimethyl-Substituted Phenylurea Herbicide Degradation. Applied and Environmental Microbiology, 2013, 79, 7846-7856.	3.1	42
16	Biocarriers Improve Bioaugmentation Efficiency of a Rapid Sand Filter for the Treatment of 2,6-Dichlorobenzamide-Contaminated Drinking Water. Environmental Science & Technology, 2017, 51, 1616-1625.	10.0	40
17	C and N Isotope Fractionation during Biodegradation of the Pesticide Metabolite 2,6-Dichlorobenzamide (BAM): Potential for Environmental Assessments. Environmental Science & Technology, 2012, 46, 1447-1454.	10.0	38
18	Microbial Degradation of 2,4-Dichlorophenoxyacetic Acid on the Greenland Ice Sheet. Applied and Environmental Microbiology, 2012, 78, 5070-5076.	3.1	33

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19	Comparing Metabolic Functionalities, Community Structures, and Dynamics of Herbicide-Degrading Communities Cultivated with Different Substrate Concentrations. Applied and Environmental Microbiology, 2013, 79, 367-375.	3.1	33
20	Biodegradation of the phenylurea herbicide isoproturon and its metabolites in agricultural soils. , 2001, 12, 69-77.		32
21	Small ¹³C/¹²C Fractionation Contrasts with Large Enantiomer Fractionation in Aerobic Biodegradation of Phenoxy Acids. Environmental Science & Technology, 2014, 48, 5501-5511.	10.0	31
22	Novel Insight into the Genetic Context of the cadAB Genes from a 4-chloro-2-methylphenoxyacetic Acid-Degrading Sphingomonas. PLoS ONE, 2013, 8, e83346.	2.5	30
23	Mineralization of Soil-Aged Isoproturon and Isoproturon Metabolites by sp. Strain SRS2. Journal of Environmental Quality, 2003, 32, 1250.	2.0	26
24	Constitutive mineralization of low concentrations of the herbicide linuron by aVariovoraxsp. strain. FEMS Microbiology Letters, 2009, 292, 291-296.	1.8	26
25	Biodegradation of the herbicide mecoprop-p with soil depth and its relationship with class III tfdA genes. Soil Biology and Biochemistry, 2010, 42, 32-39.	8.8	26
26	Evaluation of Bioaugmentation with Entrapped Degrading Cells as a Soil Remediation Technology. Environmental Science & Technology, 2010, 44, 7622-7627.	10.0	21
27	Intermediate accumulation of metabolites results in a bottleneck for mineralisation of the herbicide metabolite 2,6-dichlorobenzamide (BAM) by Aminobacter spp.. Applied Microbiology and Biotechnology, 2012, 94, 237-245.	3.6	21
28	Surface Colonization and Activity of the 2,6-Dichlorobenzamide (BAM) Degrading Aminobacter sp. Strain MSH1 at Macro- and Micropollutant BAM Concentrations. Environmental Science & Technology, 2016, 50, 10123-10133.	10.0	21
29	Large-scale bioreactor production of the herbicide-degrading Aminobacter sp. strain MSH1. Applied Microbiology and Biotechnology, 2014, 98, 2335-2344.	3.6	19
30	Centimetre-scale vertical variability of phenoxy acid herbicide mineralization potential in aquifer sediment relates to the abundance of tfdA genes. FEMS Microbiology Ecology, 2012, 80, 331-341.	2.7	16
31	Temperature Sensitivity and Composition of Nitrate-Reducing Microbiomes from a Full-Scale Woodchip Bioreactor Treating Agricultural Drainage Water. Microorganisms, 2021, 9, 1331.	3.6	16
32	Inducible hydroxylation and demethylation of the herbicide isoproturon by Cunninghamella elegans. FEMS Microbiology Letters, 2007, 268, 254-260.	1.8	15
33	Mineralization of hydroxylated isoproturon metabolites produced by fungi. Soil Biology and Biochemistry, 2007, 39, 1751-1758.	8.8	13
34	Degradation of three benzonitrile herbicides by Aminobacter<scp>MSH1</scp> versus soil microbial communities: pathways and kinetics. Pest Management Science, 2014, 70, 1291-1298.	3.4	12
35	Adhesion to sand and ability to mineralise low pesticide concentrations are required for efficient bioaugmentation of flow-through sand filters. Applied Microbiology and Biotechnology, 2017, 101, 411-421.	3.6	12
36	Biostimulation and enrichment of 2,6-dichlorobenzamide-mineralising soil bacterial communities from dichlobenil-exposed soil. Soil Biology and Biochemistry, 2007, 39, 216-223.	8.8	11

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37	Microbiome Structure and Function in Woodchip Bioreactors for Nitrate Removal in Agricultural Drainage Water. Frontiers in Microbiology, 2021, 12, 678448.	3.5	11
38	Presence of psychrotolerant phenanthrene-mineralizing bacterial populations in contaminated soils from the Greenland High Arctic. FEMS Microbiology Letters, 2010, 305, 148-154.	1.8	10
39	Genetic labelling and application of the isoproturon-mineralizing Sphingomonas sp. strain SRS2 in soil and rhizosphere. Letters in Applied Microbiology, 2006, 43, 280-286.	2.2	7
40	Environmental Fate of the Herbicide Fluazifop-P-butyl and Its Degradation Products in Two Loamy Agricultural Soils: A Combined Laboratory and Field Study. Environmental Science & Technology, 2015, 49, 8995-9003.	10.0	7
41	Isolation and characterization of psychrotolerant denitrifying bacteria for improvement of nitrate removal in woodchip bioreactors treating agricultural drainage water at low temperature. Environmental Science: Water Research and Technology, 2022, 8, 396-406.	2.4	5