Hans Hermann Richnow

List of Publications by Year
in descending order

311 papers	16,471 citations	16791 66 h-index	31191 106 g-index
320 all docs	320 docs citations	320 times ranked	12991 citing authors

#	Article	IF	Citations
1	Iron corrosion by methanogenic archaea characterized by stable isotope effects and crust mineralogy. Environmental Microbiology, 2022, 24, 583-595.	1.8	10
2	Isotope fractionation of diethyl phthalate during oxidation degradation by persulfate activated with zero-valent iron. Chemical Engineering Journal, 2022, 435, 132132.	6.6	7
3	Sulfidic acetate mineralization at 45Â°C by an aquifer microbial community: key players and effects of heat changes on activity and community structure. Environmental Microbiology, 2022, 24, 370-389.	1.8	3
4	Stable isotope fractionation associated with the synthesis of hexachlorocyclohexane isomers for characterizing sources. Chemosphere, 2022, , 133938.	4.2	2
5	Stable Hydrogen Isotope Fractionation of Hydrogen in a Field Injection Experiment: Simulation of a Gaseous H₂ Leakage. ACS Earth and Space Chemistry, 2022, 6, 631-641.	1.2	5
6	Genome and proteome analyses show the gaseous alkane degrader Desulfosarcina sp. strain <scp>BuS5</scp> as an extreme metabolic specialist. Environmental Microbiology, 2022, 24, 1964-1976.	1.8	10
7	Analysis of Carbon and Hydrogen Stable Isotope Ratios of Phenolic Compounds: Method Development and Biodegradation Applications. ACS ES&T Water, 2022, 2, 32-39.	2.3	5
8	Uptake and Metabolization of HCH Isomers in Trees Examined over an Annual Growth Period by Compound-Specific Isotope Analysis and Enantiomer Fractionation. Environmental Science & Technology, 2022, 56, 10120-10130.	4.6	4
9	Acetyl-CoA-Carboxylase 1-mediated de novo fatty acid synthesis sustains Lgr5+ intestinal stem cell function. Nature Communications, 2022, 13, .	5.8	18
10	Characterizing the biotransformation of hexachlorocyclohexanes in wheat using compound-specific stable isotope analysis and enantiomer fraction analysis. Journal of Hazardous Materials, 2021, 406, 124301.	6.5	17
11	Uptake of Î±-HCH by wheat from the gas phase and translocation to soil analyzed by a stable carbon isotope labeling experiment. Chemosphere, 2021, 264, 128489.	4.2	10
12	Comparative proteomics unravelled the hexachlorocyclohexane (HCH) isomers specific responses in an archetypical HCH degrading bacterium Sphingobium indicum B90A. Environmental Science and Pollution Research, 2021, 28, 41380-41395.	2.7	6
13	Benzene degradation in contaminated aquifers: Enhancing natural attenuation by injecting nitrate. Journal of Contaminant Hydrology, 2021, 238, 103759.	1.6	4
14	A biogeochemicalâ€“hydrological framework for the role of redox-active compounds in aquatic systems. Nature Geoscience, 2021, 14, 264-272.	5.4	67
15	Novel clades of soil biphenyl degraders revealed by integrating isotope probing, multi-omics, and single-cell analyses. ISME Journal, 2021, 15, 3508-3521.	4.4	14
16	Microbial Identification, High-Resolution Microscopy and Spectrometry of the Rhizosphere in Its Native Spatial Context. Frontiers in Plant Science, 2021, 12, 668929.	1.7	15
17	Monitoring of the effects of a temporally limited heat stress on microbial communities in a shallow aquifer. Science of the Total Environment, 2021, 781, 146377.	3.9	6
18	Metabolic history and metabolic fitness as drivers of anabolic heterogeneity in isogenic microbial populations. Environmental Microbiology, 2021, 23, 6764-6776.	1.8	6

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19	Carbon, hydrogen and nitrogen stable isotope fractionation allow characterizing the reaction mechanisms of 1H-benzotriazole aqueous phototransformation. Water Research, 2021, 203, 117519.	5.3	11
20	Compound specific isotope analysis to characterize degradation mechanisms of p-chloroaniline by persulfate at ambient temperature. Chemical Engineering Journal, 2021, 419, 129526.	6.6	9
21	Soil from a Hexachlorocyclohexane Contaminated Field Site Inoculates Wheat in a Pot Experiment to Facilitate the Microbial Transformation of Î²-Hexachlorocyclohexane Examined by Compound-Specific Isotope Analysis. Environmental Science & Technology, 2021, 55, 13812-13821.	4.6	13
22	Anaerobic Transformation and Detoxification of Sulfamethoxazole by Sulfate-Reducing Enrichments and Desulfovibrio vulgaris. Environmental Science & Technology, 2021, 55, 271-282.	4.6	25
23	Temperature management potentially affects carbon mineralization capacity and microbial community composition of a shallow aquifer. FEMS Microbiology Ecology, 2021, 97, .	1.3	6
24	In vitro elucidation of suppression effects of composts to soil-borne pathogen Phytophthora nicotianae on pepper plants using 16S amplicon sequencing and metaproteomics. Renewable Agriculture and Food Systems, 2020, 35, 206-214.	0.8	9
25	Biotransformation of hexachlorocyclohexanes contaminated biomass for energetic utilization demonstrated in continuous anaerobic digestion system. Journal of Hazardous Materials, 2020, 384, 121448.	6.5	8
26	Taxonomic and functional diversity of the microbiome in a jet fuel contaminated site as revealed by combined application of in situ microcosms with metagenomic analysis. Science of the Total Environment, 2020, 708, 135152.	3.9	20
27	Dynamics of hydrocarbon mineralization characterized by isotopic analysis at a jet-fuel-contaminated site in subtropical climate. Journal of Contaminant Hydrology, 2020, 234, 103684.	1.6	7
28	Reductive debromination by sponge-associated anaerobic bacteria coupled to carbon isotope fractionation. International Biodeterioration and Biodegradation, 2020, 155, 105093.	1.9	3
29	Dual Câ€“Cl isotope analysis for characterizing the anaerobic transformation of Î±, Î², Î³, and Î´-hexachlorocyclohexane in contaminated aquifers. Water Research, 2020, 184, 116128.	5.3	19
30	Surface cleaning and sample carrier for complementary high-resolution imaging techniques. Biointerphases, 2020, 15, 021005.	0.6	0
31	Simultaneous Compound-Specific Analysis of Î´³³S and Î´³⁴S in Organic Compounds by GC-MC-ICPMS Using Medium- and Low-Mass-Resolution Modes. Analytical Chemistry, 2020, 92, 14685-14692.	3.2	11
32	Compound-Specific Isotope Analysis and Enantiomer Fractionation to Characterize the Transformation of Hexachlorocyclohexane Isomers in a Soilâ€“Wheat Pot System. Environmental Science & Technology, 2020, 54, 8690-8698.	4.6	22
33	Warming the phycosphere: Differential effect of temperature on the use of diatomâ€derived carbon by two copiotrophic bacterial taxa. Environmental Microbiology, 2020, 22, 1381-1396.	1.8	12
34	Compound-Specific Stable Isotope Analysis (CSIA) for Evaluating Degradation of Organic Pollutants: An Overview of Field Case Studies. , 2020, , 323-360.		4
35	Dual Câ€“Cl Isotope Analysis for Characterizing the Reductive Dechlorination of Î±- and Î³-Hexachlorocyclohexane by Two Dehalococcoides mccartyi Strains and an Enrichment Culture. Environmental Science & Technology, 2020, 54, 7250-7260.	4.6	18
36	Effect of Temperature on Acetate Mineralization Kinetics and Microbial Community Composition in a Hydrocarbon-Affected Microbial Community During a Shift From Oxic to Sulfidogenic Conditions. Frontiers in Microbiology, 2020, 11, 606565.	1.5	4

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37	MULTI-ELEMENTAL (C, H) STABLE ISOTOPE ANALYSIS AS A TOOL TO DETERMINE PHENOLIC COMPOUND FATE IN ENVIRONMENT. , 2020, , .		0
38	Compound-Specific Isotope Analysis for Studying the Biological Degradation of Hydrocarbons. , 2020, , 285-321.		0
39	High resolution microscopy to evaluate the efficiency of surface sterilization of Zea Mays seeds. PLoS ONE, 2020, 15, e0242247.	1.1	20
40	Isotope fractionation approach to characterize the reactive transport processes governing the fate of hexachlorocyclohexanes at a contaminated site in India. Environment International, 2019, 132, 105036.	4.8	36
41	2H and 13C isotope fractionation analysis of organophosphorus compounds for characterizing transformation reactions in biogas slurry: Potential for anaerobic treatment of contaminated biomass. Water Research, 2019, 163, 114882.	5.3	7
42	H2 Kinetic Isotope Fractionation Superimposed by Equilibrium Isotope Fractionation During Hydrogenase Activity of D. vulgaris Strain Miyazaki. Frontiers in Microbiology, 2019, 10, 1545.	1.5	5
43	Enantiomer and Carbon Isotope Fractionation of Î±-Hexachlorocyclohexane by Sphingobium indicum Strain B90A and the Corresponding Enzymes. Environmental Science & Technology, 2019, 53, 8715-8724.	4.6	27
44	Isotopic Characterization (2H, 13C, 37Cl, 81Br) of Abiotic Degradation of Methyl Bromide and Methyl Chloride in Water and Implications for Future Studies. Environmental Science & Technology, 2019, 53, 8813-8822.	4.6	16
45	Identification of nanoparticles and their localization in algal biofilm by 3D-imaging secondary ion mass spectrometry. Journal of Analytical Atomic Spectrometry, 2019, 34, 1098-1108.	1.6	22
46	A concept for studying the transformation reaction of hexachlorocyclohexanes in food webs using multi-element compound-specific isotope analysis. Analytica Chimica Acta, 2019, 1064, 56-64.	2.6	20
47	Algal Remodeling in a Ubiquitous Planktonic Photosymbiosis. Current Biology, 2019, 29, 968-978.e4.	1.8	45
48	Anaerobic oxidation of ethane by archaea from a marine hydrocarbon seep. Nature, 2019, 568, 108-111.	13.7	149
49	Identification of dominant sulfamethoxazole-degraders in pig farm-impacted soil by DNA and protein stable isotope probing. Environment International, 2019, 126, 118-126.	4.8	49
50	Investigation of architecture development and phosphate distribution in Chlorella biofilm by complementary microscopy techniques. FEMS Microbiology Ecology, 2019, 95, .	1.3	10
51	Can Alkaline Hydrolysis of Î³-HCH Serve as a Model Reaction to Study Its Aerobic Enzymatic Dehydrochlorination by LinA?. International Journal of Molecular Sciences, 2019, 20, 5955.	1.8	7
52	Quantitation and Comparison of Phenotypic Heterogeneity Among Single Cells of Monoclonal Microbial Populations. Frontiers in Microbiology, 2019, 10, 2814.	1.5	17
53	Carbon and hydrogen isotopic fractionation during abiotic hydrolysis and aerobic biodegradation of phthalate esters. Science of the Total Environment, 2019, 660, 559-566.	3.9	20
54	Individual stages of bacterial dichloromethane degradation mapped by carbon and chlorine stable isotope analysis. Journal of Environmental Sciences, 2019, 78, 147-160.	3.2	12

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55	Compound-Specific Stable Isotope Analysis (CSIA) for Evaluating Degradation of Organic Pollutants: An Overview of Field Case Studies. , 2019, , 1-39.		2
56	Distinct Carbon Isotope Fractionation Signatures during Biotic and Abiotic Reductive Transformation of Chlordecone. Environmental Science & Technology, 2018, 52, 3615-3624.	4.6	22
57	Ammonium Chloride vs Ureaâ€Induced Ammonia Inhibition of the Biogas Process Assessed by Stable Isotope Analysis. Chemical Engineering and Technology, 2018, 41, 671-679.	0.9	9
58	Carbon and hydrogen isotope fractionation of phthalate esters during degradation by sulfate and hydroxyl radicals. Chemical Engineering Journal, 2018, 347, 111-118.	6.6	38
59	Aqueous photodegradation of substituted chlorobenzenes: Kinetics, carbon isotope fractionation, and reaction mechanisms. Water Research, 2018, 135, 95-103.	5.3	15
60	Biotransformation and inhibition effects of hexachlorocyclohexanes during biogas production from contaminated biomass characterized by isotope fractionation concepts. Bioresource Technology, 2018, 250, 683-690.	4.8	17
61	Conductive Particles Enable Syntrophic Acetate Oxidation between Geobacter and Methanosarcina from Coastal Sediments. MBio, 2018, 9, .	1.8	69
62	Characterizing chemical transformation of organophosphorus compounds by 13C and 2H stable isotope analysis. Science of the Total Environment, 2018, 615, 20-28.	3.9	41
63	Bacterial and Archaeal Viruses of Himalayan Hot Springs at Manikaran Modulate Host Genomes. Frontiers in Microbiology, 2018, 9, 3095.	1.5	27
64	Calculation of Single Cell Assimilation Rates From SIP-NanoSIMS-Derived Isotope Ratios: A Comprehensive Approach. Frontiers in Microbiology, 2018, 9, 2342.	1.5	29
65	Multi-element compound specific stable isotope analysis of chlorinated aliphatic contaminants derived from chlorinated pitches. Science of the Total Environment, 2018, 640-641, 153-162.	3.9	15
66	Carbon and hydrogen stable isotope analysis for characterizing the chemical degradation of tributyl phosphate. Chemosphere, 2018, 212, 133-142.	4.2	19
67	Carbon and hydrogen isotope analysis of parathion for characterizing its natural attenuation by hydrolysis at a contaminated site. Water Research, 2018, 143, 146-154.	5.3	26
68	Compound-Specific Isotope Analysis for Studying the Biological Degradation of Hydrocarbons. , 2018, , 1-38.		1
69	Developing empirical monthly groundwater recharge equations based on modeling and remote sensing data â€“ Modeling future groundwater recharge to predict potential climate change impacts. Journal of Hydrology, 2017, 546, 1-13.	2.3	49
70	Methylamine as a nitrogen source for microorganisms from a coastal marine environment. Environmental Microbiology, 2017, 19, 2246-2257.	1.8	50
71	Validation of GCâ€“IRMS techniques for Î´13C and Î´2H CSIA of organophosphorus compounds and their potential for studying the mode of hydrolysis in the environment. Analytical and Bioanalytical Chemistry, 2017, 409, 2581-2590.	1.9	26
72	Microaerophilic Fe(II)-Oxidizing Zetaproteobacteria Isolated from Low-Fe Marine Coastal Sediments: Physiology and Composition of Their Twisted Stalks. Applied and Environmental Microbiology, 2017, 83, .	1.4	42

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73	Differential sensitivity of total and active soil microbial communities to drought and forest management. Global Change Biology, 2017, 23, 4185-4203.	4.2	150
74	Mycelium-mediated transfer of water and nutrients stimulates bacterial activity in dry and oligotrophic environments. Nature Communications, 2017, 8, 15472.	5.8	109
75	Carbon, Hydrogen and Chlorine Stable Isotope Fingerprinting for Forensic Investigations of Hexachlorocyclohexanes. Environmental Science & Technology, 2017, 51, 446-454.	4.6	27
76	A patchwork pathway for oxygenaseâ€independent degradation of side chain containing steroids. Environmental Microbiology, 2017, 19, 4684-4699.	1.8	28
77	Compound Specific Stable Chlorine Isotopic Analysis of Volatile Aliphatic Compounds Using Gas Chromatography Hyphenated with Multiple Collector Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2017, 89, 9131-9138.	3.2	50
78	Compound Specific and Enantioselective Stable Isotope Analysis as Tools To Monitor Transformation of Hexachlorocyclohexane (HCH) in a Complex Aquifer System. Environmental Science & Technology, 2017, 51, 8909-8916.	4.6	38
79	Compound-Specific Stable Isotope Analysis: Implications in Hexachlorocyclohexane in-vitro and Field Assessment. Indian Journal of Microbiology, 2017, 57, 11-22.	1.5	11
80	Evaluation of the performance of high temperature conversion reactors for compound-specific oxygen stable isotope analysis. Isotopes in Environmental and Health Studies, 2017, 53, 116-133.	0.5	3
81	Isotope fractionation of benzene during partitioning â€“ Revisited. Chemosphere, 2017, 168, 508-513.	4.2	19
82	Lessons learned from the microbial ecology resulting from different inoculation strategies for biogas production from waste products of the bioethanol/sugar industry. Biotechnology for Biofuels, 2016, 9, 144.	6.2	18
83	Recent advances in multi-element compound-specific stable isotope analysis of organohalides: Achievements, challenges and prospects for assessing environmental sources and transformation. Trends in Environmental Analytical Chemistry, 2016, 11, 1-8.	5.3	42
84	Analyzing sites of OH radical attack (ring vs. side chain) in oxidation of substituted benzenes via dual stable isotope analysis (Î´13C and Î´2H). Science of the Total Environment, 2016, 542, 484-494.	3.9	36
85	The active microbial diversity drives ecosystem multifunctionality and is physiologically related to carbon availability in Mediterranean semiâ€arid soils. Molecular Ecology, 2016, 25, 4660-4673.	2.0	151
86	Dual Carbonâ€“Bromine Stable Isotope Analysis Allows Distinguishing Transformation Pathways of Ethylene Dibromide. Environmental Science & Technology, 2016, 50, 9855-9863.	4.6	27
87	Editorial overview: Probing environmental processes and microbiome functions using stable isotopes as smart tracers in analytical biotechnology. Current Opinion in Biotechnology, 2016, 41, iv-vii.	3.3	0
88	Stable isotope fractionation concepts for characterizing biotransformation of organohalides. Current Opinion in Biotechnology, 2016, 41, 108-113.	3.3	46
89	Thermophilic archaea activate butane via alkyl-coenzyme M formation. Nature, 2016, 539, 396-401.	13.7	279
90	Protein-SIP in environmental studies. Current Opinion in Biotechnology, 2016, 41, 26-33.	3.3	67

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91	Location and speciation of gadolinium and yttrium in roots of Zea mays by LA-ICP-MS and ToF-SIMS. Environmental Pollution, 2016, 216, 245-252.	3.7	22
92	Multi-element isotope fractionation concepts to characterize the biodegradation of hydrocarbons â€" from enzymes to the environment. Current Opinion in Biotechnology, 2016, 41, 90-98.	3.3	88
93	Characterization of phenol and cresol biodegradation by compound-specific stable isotope analysis. Environmental Pollution, 2016, 210, 166-173.	3.7	52
94	Characterization of toluene and ethylbenzene biodegradation under nitrate-, iron(III)- and manganese(IV)-reducing conditions by compound-specific isotope analysis. Environmental Pollution, 2016, 211, 271-281.	3.7	46
95	Reduction of the hydraulic retention time at constant high organic loading rate to reach the microbial limits of anaerobic digestion in various reactor systems. Bioresource Technology, 2016, 217, 62-71.	4.8	60
96	Sulfur and Oxygen Isotope Fractionation During Bacterial Sulfur Disproportionation Under Anaerobic Haloalkaline Conditions. Geomicrobiology Journal, 2016, 33, 934-941.	1.0	12
97	Hydrogen Isotope Fractionation As a Tool to Identify Aerobic and Anaerobic PAH Biodegradation. Environmental Science & Technology, 2016, 50, 3091-3100.	4.6	28
98	Pulsed 13C2-Acetate Protein-SIP Unveils Epsilonproteobacteria as Dominant Acetate Utilizers in a Sulfate-Reducing Microbial Community Mineralizing Benzene. Microbial Ecology, 2016, 71, 901-911.	1.4	29
99	Anaerobic Microbial Degradation of Hydrocarbons: From Enzymatic Reactions to the Environment. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 5-28.	1.0	615
100	Methanogenic Hydrocarbon Degradation: Evidence from Field and Laboratory Studies. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 227-242.	1.0	45
101	Functional Gene Markers for Fumarate-Adding and Dearomatizing Key Enzymes in Anaerobic Aromatic Hydrocarbon Degradation in Terrestrial Environments. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 180-194.	1.0	52
102	Carbon and Hydrogen Stable Isotope Fractionation Associated with the Aerobic and Anaerobic Degradation of Saturated and Alkylated Aromatic Hydrocarbons. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 211-226.	1.0	15
103	Stable Isotope Probing Approaches to Study Anaerobic Hydrocarbon Degradation and Degraders. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 195-210.	1.0	24
104	Changing Feeding Regimes To Demonstrate Flexible Biogas Production: Effects on Process Performance, Microbial Community Structure, and Methanogenesis Pathways. Applied and Environmental Microbiology, 2016, 82, 438-449.	1.4	84
105	The ecological and physiological responses of the microbial community from a semiarid soil to hydrocarbon contamination and its bioremediation using compost amendment. Journal of Proteomics, 2016, 135, 162-169.	1.2	136
106	Combining metagenomics with metaproteomics and stable isotope probing reveals metabolic pathways used by a naturally occurring marine methylotroph. Environmental Microbiology, 2015, 17, 4007-4018.	1.8	51
107	Improved Monitoring of Semi-Continuous Anaerobic Digestion of Sugarcane Waste: Effects of Increasing Organic Loading Rate on Methanogenic Community Dynamics. International Journal of Molecular Sciences, 2015, 16, 23210-23226.	1.8	42
108	Improvement of analytical method for chlorine dualâ€inlet isotope ratio mass spectrometry of organochlorines. Rapid Communications in Mass Spectrometry, 2015, 29, 1343-1350.	0.7	10

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109	Evaluation of ethyl tert-butyl ether biodegradation in a contaminated aquifer by compound-specific isotope analysis and in situ microcosms. Journal of Hazardous Materials, 2015, 286, 100-106.	6.5	19
110	Coupling of a Headspace Autosampler with a Programmed Temperature Vaporizer for Stable Carbon and Hydrogen Isotope Analysis of Volatile Organic Compounds at Microgram per Liter Concentrations. Analytical Chemistry, 2015, 87, 951-959.	3.2	15
111	Development and Validation of an Universal Interface for Compound-Specific Stable Isotope Analysis of Chlorine (³⁷Cl/³⁵Cl) by GC-High-Temperature Conversion (HTC)-MS/IRMS. Analytical Chemistry, 2015, 87, 2832-2839.	3.2	42
112	Harvesting electricity from benzene and ammonium-contaminated groundwater using a microbial fuel cell with an aerated cathode. RSC Advances, 2015, 5, 5321-5330.	1.7	33
113	Potential for aerobic and methanogenic oil biodegradation in a water flooded oil field (Dagang oil) Tj ETQq1 1 0.784314 rgBT /Overlock	3.4	25
114	Multidimensional isotope analysis of carbon, hydrogen and oxygen as tool for identification of the origin of ibuprofen. Journal of Pharmaceutical and Biomedical Analysis, 2015, 115, 410-417.	1.4	21
115	Enhancement and monitoring of pollutant removal in a constructed wetland by microbial electrochemical technology. Bioresource Technology, 2015, 196, 490-499.	4.8	37
116	Carbon Stable Isotope Fractionation of Sulfamethoxazole during Biodegradation by Microbacterium sp. Strain BR1 and upon Direct Photolysis. Environmental Science & Technology, 2015, 49, 6029-6036.	4.6	38
117	Evaluating degradation of hexachlorcyclohexane (HCH) isomers within a contaminated aquifer using compound-specific stable carbon isotope analysis (CSIA). Water Research, 2015, 71, 187-196.	5.3	53
118	Microbial methane formation in deep aquifers of a coal-bearing sedimentary basin, Germany. Frontiers in Microbiology, 2015, 6, 200.	1.5	39
119	Deforestation fosters bacterial diversity and the cyanobacterial community responsible for carbon fixation processes under semiarid climate: a metaproteomics study. Applied Soil Ecology, 2015, 93, 65-67.	2.1	27
120	Relative Contributions of Dehalobacter and Zerovalent Iron in the Degradation of Chlorinated Methanes. Environmental Science & Technology, 2015, 49, 4481-4489.	4.6	36
121	Anaerobic naphthalene degradation by sulfate-reducing Desulfobacteraceae from various anoxic aquifers. FEMS Microbiology Ecology, 2015, 91, .	1.3	67
122	Photochemistry of 4-Chlorophenol in Liquid and Frozen Aqueous Media Studied by Chemical, Compound-Specific Isotope, and DFT Analyses. Langmuir, 2015, 31, 10743-10750.	1.6	17
123	Evaluation of aquifer recharge and vulnerability in an alluvial lowland using environmental tracers. Journal of Hydrology, 2015, 529, 1657-1668.	2.3	29
124	Investigation of Humic Substance Photosensitized Reactions via Carbon and Hydrogen Isotope Fractionation. Environmental Science & Technology, 2015, 49, 233-242.	4.6	31
125	CO2BioPermâ€"Influence of Bio-geochemical CO2-Transformation Processes on the Long-Term Permeability. Advanced Technologies in Earth Sciences, 2015, , 73-96.	0.9	0
126	Seawater intrusion into groundwater aquifer through a coastal lake - complex interaction characterised by water isotopes²H and¹⁸O. Isotopes in Environmental and Health Studies, 2014, 50, 74-87.	0.5	16

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127	Stable isotope composition of biogas allows early warning of complete process failure as a result of ammonia inhibition in anaerobic digesters. Bioresource Technology, 2014, 167, 251-259.	4.8	67
128	Compound specific stable isotope analysis (CSIA) to characterize transformation mechanisms of Î±-hexachlorocyclohexane. Journal of Hazardous Materials, 2014, 280, 750-757.	6.5	53
129	A PCR-based assay for the detection of anaerobic naphthalene degradation. FEMS Microbiology Letters, 2014, 354, 55-59.	0.7	18
130	LaFeO3 and BiFeO3 perovskites as nanocatalysts for contaminant degradation in heterogeneous Fenton-like reactions. Chemical Engineering Journal, 2014, 239, 322-331.	6.6	151
131	Carbon and hydrogen stable isotope fractionation associated with the anaerobic degradation of propane and butane by marine sulfateâ€reducing bacteria. Environmental Microbiology, 2014, 16, 130-140.	1.8	43
132	Using compound-specific isotope analysis to assess the degradation of chloroacetanilide herbicides in lab-scale wetlands. Chemosphere, 2014, 99, 89-95.	4.2	48
133	Iron oxides stimulate microbial monochlorobenzene in situ transformation in constructed wetlands and laboratory systems. Science of the Total Environment, 2014, 472, 185-193.	3.9	12
134	Rayleigh-Based Concept to Tackle Strong Hydrogen Fractionation in Dual Isotope Analysisâ€”The Example of Ethylbenzene Degradation by Aromatoleum aromaticum. Environmental Science & Technology, 2014, 48, 5788-5797.	4.6	20
135	Performance of the Wet Oxidation Unit of the HPLC Isotope Ratio Mass Spectrometry System for Halogenated Compounds. Analytical Chemistry, 2014, 86, 7252-7257.	3.2	19
136	Diversity of dechlorination pathways and organohalide respiring bacteria in chlorobenzene dechlorinating enrichment cultures originating from river sludge. Biodegradation, 2014, 25, 757-776.	1.5	17
137	Compound-Specific Isotope Analysis as a Tool To Characterize Biodegradation of Ethylbenzene. Environmental Science & Technology, 2014, 48, 9122-9132.	4.6	23
138	Stable Sulfur and Oxygen Isotope Fractionation of Anoxic Sulfide Oxidation by Two Different Enzymatic Pathways. Environmental Science & Technology, 2014, 48, 9094-9102.	4.6	57
139	Metaproteogenomic analysis of a sulfate-reducing enrichment culture reveals genomic organization of key enzymes in the m-xylene degradation pathway and metabolic activity of proteobacteria. Systematic and Applied Microbiology, 2014, 37, 488-501.	1.2	31
140	Carbon and hydrogen isotope fractionation of benzene and toluene during hydrophobic sorption in multistep batch experiments. Chemosphere, 2014, 107, 454-461.	4.2	34
141	Influences of the substrate feeding regime on methanogenic activity in biogas reactors approached by molecular and stable isotope methods. Anaerobe, 2014, 29, 91-99.	1.0	44
142	The effect of FISH and CARD-FISH on the isotopic composition of 13C- and 15N-labeled Pseudomonas putida cells measured by nanoSIMS. Systematic and Applied Microbiology, 2014, 37, 267-276.	1.2	78
143	Compound specific isotope analysis of organophosphorus pesticides. Chemosphere, 2014, 111, 458-463.	4.2	30
144	The role of lignin and cellulose in the carbon-cycling of degraded soils under semiarid climate and their relation to microbial biomass. Soil Biology and Biochemistry, 2014, 75, 152-160.	4.2	57

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145	Evaluation of stable isotope fingerprinting techniques for the assessment of the predominant methanogenic pathways in anaerobic digesters. Applied Microbiology and Biotechnology, 2013, 97, 2251-2262.	1.7	46
146	Influence of mass transfer on stable isotope fractionation. Applied Microbiology and Biotechnology, 2013, 97, 441-452.	1.7	65
147	Enantioselective Carbon Stable Isotope Fractionation of Hexachlorocyclohexane during Aerobic Biodegradation by Sphingobium spp.. Environmental Science & Technology, 2013, 47, 11432-11439.	4.6	68
148	Disproportionation of elemental sulfur by haloalkaliphilic bacteria from soda lakes. Extremophiles, 2013, 17, 1003-1012.	0.9	104
149	A stable isotope approach for source apportionment of chlorinated ethene plumes at a complex multi-contamination events urban site. Journal of Contaminant Hydrology, 2013, 153, 92-105.	1.6	36
150	Relevance of Deep-Subsurface Microbiology for Underground Gas Storage and Geothermal Energy Production. Advances in Biochemical Engineering/Biotechnology, 2013, 142, 95-121.	0.6	13
151	Can the labile carbon contribute to carbon immobilization in semiarid soils? Priming effects and microbial community dynamics. Soil Biology and Biochemistry, 2013, 57, 892-902.	4.2	74
152	Analysis of structure, function, and activity of a benzene-degrading microbial community. FEMS Microbiology Ecology, 2013, 85, 14-26.	1.3	48
153	The nitrogen cycle in anaerobic methanotrophic mats of the Black Sea is linked to sulfate reduction and biomass decomposition. FEMS Microbiology Ecology, 2013, 86, 231-245.	1.3	13
154	Insights from quantitative metaproteomics and protein-stable isotope probing into microbial ecology. ISME Journal, 2013, 7, 1877-1885.	4.4	107
155	Elucidation of in situ polycyclic aromatic hydrocarbon degradation by functional metaproteomics (proteinâ€SIP). Proteomics, 2013, 13, 2910-2920.	1.3	69
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