

# Carsten Vogt

## List of Publications by Year in descending order

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Version: 2024-02-01

129  
papers

5,661  
citations

53794

45  
h-index

95266

68  
g-index

133  
all docs

133  
docs citations

133  
times ranked

5386  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                              | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Anaerobic Microbial Degradation of Hydrocarbons: From Enzymatic Reactions to the Environment. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2016, 26, 5-28.                                                                                           | 1.0  | 615       |
| 2  | Combined Carbon and Hydrogen Isotope Fractionation Investigations for Elucidating Benzene Biodegradation Pathways. <i>Environmental Science &amp; Technology</i> , 2008, 42, 4356-4363.                                                                              | 10.0 | 137       |
| 3  | Protein-based stable isotope probing (Protein-SIP) reveals active species within anoxic mixed cultures. <i>ISME Journal</i> , 2008, 2, 1122-1133.                                                                                                                    | 9.8  | 126       |
| 4  | Anaerobic benzene degradation by bacteria. <i>Microbial Biotechnology</i> , 2011, 4, 710-724.                                                                                                                                                                        | 4.2  | 122       |
| 5  | Evaluation of Toluene Degradation Pathways by Two-Dimensional Stable Isotope Fractionation. <i>Environmental Science &amp; Technology</i> , 2008, 42, 7793-7800.                                                                                                     | 10.0 | 119       |
| 6  | Protein-SIP enables time-resolved analysis of the carbon flux in a sulfate-reducing, benzene-degrading microbial consortium. <i>ISME Journal</i> , 2012, 6, 2291-2301.                                                                                               | 9.8  | 109       |
| 7  | Key players and team play: anaerobic microbial communities in hydrocarbon-contaminated aquifers. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 851-873.                                                                                                  | 3.6  | 108       |
| 8  | Molecular characterization of bacterial communities mineralizing benzene under sulfate-reducing conditions. <i>FEMS Microbiology Ecology</i> , 2008, 66, 143-157.                                                                                                    | 2.7  | 107       |
| 9  | Insights from quantitative metaproteomics and protein-stable isotope probing into microbial ecology. <i>ISME Journal</i> , 2013, 7, 1877-1885.                                                                                                                       | 9.8  | 107       |
| 10 | Disproportionation of elemental sulfur by haloalkaliphilic bacteria from soda lakes. <i>Extremophiles</i> , 2013, 17, 1003-1012.                                                                                                                                     | 2.3  | 104       |
| 11 | Microbial Diversity in an in situ Reactor System Treating onochlorobenzene Contaminated Groundwater as Revealed by 16S Ribosomal DNA Analysis. <i>Systematic and Applied Microbiology</i> , 2002, 25, 232-240.                                                       | 2.8  | 103       |
| 12 | Functional characterization of an anaerobic benzene-degrading enrichment culture by DNA stable isotope probing. <i>Environmental Microbiology</i> , 2010, 12, 401-411.                                                                                               | 3.8  | 103       |
| 13 | 6-Oxocyclohex-1-ene-1-carboxyl-coenzyme A hydrolases from obligately anaerobic bacteria: characterization and identification of its gene as a functional marker for aromatic compounds degrading anaerobes. <i>Environmental Microbiology</i> , 2008, 10, 1547-1556. | 3.8  | 99        |
| 14 | Protein-based stable isotope probing. <i>Nature Protocols</i> , 2010, 5, 1957-1966.                                                                                                                                                                                  | 12.0 | 97        |
| 15 | Investigation of the geochemical impact of CO <sub>2</sub> on shallow groundwater: design and implementation of a CO <sub>2</sub> injection test in Northeast Germany. <i>Environmental Earth Sciences</i> , 2012, 67, 335-349.                                      | 2.7  | 91        |
| 16 | Multi-element isotope fractionation concepts to characterize the biodegradation of hydrocarbons "from enzymes to the environment. <i>Current Opinion in Biotechnology</i> , 2016, 41, 90-98.                                                                         | 6.6  | 88        |
| 17 | Improving protein extraction and separation methods for investigating the metaproteome of anaerobic benzene communities within sediments. <i>Biodegradation</i> , 2009, 20, 737-750.                                                                                 | 3.0  | 86        |
| 18 | Stable Isotope Fractionation of <sup>13</sup> C-Hexachlorocyclohexane (Lindane) during Reductive Dechlorination by Two Strains of Sulfate-Reducing Bacteria. <i>Environmental Science &amp; Technology</i> , 2009, 43, 3155-3161.                                    | 10.0 | 84        |

| #  | ARTICLE                                                                                                                                                                                                                            | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Incorporation of carbon and nitrogen atoms into proteins measured by protein-based stable isotope probing (Protein-SIP). <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2889-2897.                                   | 1.5  | 77        |
| 20 | Phenol Degradation in the Strictly Anaerobic Iron-Reducing Bacterium <i>Geobacter metallireducens</i> GS-15. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3912-3919.                                                  | 3.1  | 74        |
| 21 | Different types of methane monooxygenases produce similar carbon and hydrogen isotope fractionation patterns during methane oxidation. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1173-1184.                               | 3.9  | 69        |
| 22 | Anaerobic naphthalene degradation by sulfate-reducing <i>Desulfobacteraceae</i> from various anoxic aquifers. <i>FEMS Microbiology Ecology</i> , 2015, 91, .                                                                       | 2.7  | 67        |
| 23 | Protein-SIP in environmental studies. <i>Current Opinion in Biotechnology</i> , 2016, 41, 26-33.                                                                                                                                   | 6.6  | 67        |
| 24 | Experimental investigation of nitrogen and oxygen isotope fractionation in nitrate and nitrite during denitrification. <i>Biogeochemistry</i> , 2011, 103, 371-384.                                                                | 3.5  | 65        |
| 25 | Enrichment and characterization of a sulfate-reducing toluene-degrading microbial consortium by combining <i>in situ</i> microcosms and stable isotope probing techniques. <i>FEMS Microbiology Ecology</i> , 2010, 71, 237-246.   | 2.7  | 63        |
| 26 | Development of an enantiomer-specific stable carbon isotope analysis (ESIA) method for assessing the fate of 1,2-hexachlorocyclohexane in the environment. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1363-1372. | 1.5  | 63        |
| 27 | Treatment of chlorobenzene-contaminated groundwater in a pilot-scale constructed wetland. <i>Ecological Engineering</i> , 2008, 33, 45-53.                                                                                         | 3.6  | 62        |
| 28 | Carbon and hydrogen isotope fractionation of benzene during biodegradation under sulfate-reducing conditions: a laboratory to field site approach. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2439-2447.         | 1.5  | 61        |
| 29 | Protein-based stable isotope probing (protein-SIP) in functional metaproteomics. <i>Mass Spectrometry Reviews</i> , 2012, 31, 683-697.                                                                                             | 5.4  | 61        |
| 30 | Sulfur and Oxygen Isotope Fractionation during Benzene, Toluene, Ethyl Benzene, and Xylene Degradation by Sulfate-Reducing Bacteria. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3879-3885.                          | 10.0 | 59        |
| 31 | Distribution and diversity of autotrophic bacteria in groundwater systems based on the analysis of <i>RubisCO</i> genotypes. <i>Systematic and Applied Microbiology</i> , 2009, 32, 140-150.                                       | 2.8  | 59        |
| 32 | Benzene oxidation under sulfate-reducing conditions in columns simulating <i>in situ</i> conditions. <i>Biodegradation</i> , 2007, 18, 625-636.                                                                                    | 3.0  | 58        |
| 33 | Stable Sulfur and Oxygen Isotope Fractionation of Anoxic Sulfide Oxidation by Two Different Enzymatic Pathways. <i>Environmental Science &amp; Technology</i> , 2014, 48, 9094-9102.                                               | 10.0 | 57        |
| 34 | Determination of low thiourea concentrations in industrial process water and natural samples using reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2001, 934, 129-134.                 | 3.7  | 56        |
| 35 | Combined Application of PCR-Based Functional Assays for the Detection of Aromatic-Compound-Degrading Anaerobes. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5056-5061.                                               | 3.1  | 55        |
| 36 | Characterization of phenol and cresol biodegradation by compound-specific stable isotope analysis. <i>Environmental Pollution</i> , 2016, 210, 166-173.                                                                            | 7.5  | 52        |

| #  | ARTICLE                                                                                                                                                                                                                                       | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Functional Gene Markers for Fumarate-Adding and Dearomatizing Key Enzymes in Anaerobic Aromatic Hydrocarbon Degradation in Terrestrial Environments. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2016, 26, 180-194.          | 1.0  | 52        |
| 38 | Bacterial Diversity and Aerobic Biodegradation Potential in a BTEX-Contaminated Aquifer. <i>Water, Air, and Soil Pollution</i> , 2007, 183, 415-426.                                                                                          | 2.4  | 51        |
| 39 | Analysis of structure, function, and activity of a benzene-degrading microbial community. <i>FEMS Microbiology Ecology</i> , 2013, 85, 14-26.                                                                                                 | 2.7  | 48        |
| 40 | Benzene and sulfide removal from groundwater treated in a microbial fuel cell. <i>Biotechnology and Bioengineering</i> , 2013, 110, 3104-3113.                                                                                                | 3.3  | 48        |
| 41 | Characterization of anaerobic xylene biodegradation by two-dimensional isotope fractionation analysis. <i>Environmental Microbiology Reports</i> , 2009, 1, 535-544.                                                                          | 2.4  | 47        |
| 42 | ISOTOPIC FRACTIONATION INDICATES ANAEROBIC MONOCHLOROBENZENE BIODEGRADATION. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 1315.                                                                                                  | 4.3  | 46        |
| 43 | Aerated treatment pond technology with biofilm promoting mats for the bioremediation of benzene, MTBE and ammonium contaminated groundwater. <i>Water Research</i> , 2010, 44, 1785-1796.                                                     | 11.3 | 46        |
| 44 | Carbon and hydrogen isotope fractionation during nitrite-dependent anaerobic methane oxidation by <i>Methyloirabilis oxyfera</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 256-264.                                                | 3.9  | 46        |
| 45 | Characterization of toluene and ethylbenzene biodegradation under nitrate-, iron(III)- and manganese(IV)-reducing conditions by compound-specific isotope analysis. <i>Environmental Pollution</i> , 2016, 211, 271-281.                      | 7.5  | 46        |
| 46 | Expression of Chlorocatechol 1,2-Dioxygenase and Chlorocatechol 2,3-Dioxygenase Genes in Chlorobenzene-Contaminated Subsurface Samples. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1372-1376.                                  | 3.1  | 45        |
| 47 | Methanogenic Hydrocarbon Degradation: Evidence from Field and Laboratory Studies. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2016, 26, 227-242.                                                                             | 1.0  | 45        |
| 48 | Enrichment of anaerobic benzene-degrading microorganisms by in situ microcosms. <i>FEMS Microbiology Ecology</i> , 2008, 63, 94-106.                                                                                                          | 2.7  | 44        |
| 49 | Bioremediation of chlorobenzene-contaminated ground water in an in situ reactor mediated by hydrogen peroxide. <i>Journal of Contaminant Hydrology</i> , 2004, 68, 121-141.                                                                   | 3.3  | 43        |
| 50 | Effects of hydrogen and acetate on benzene mineralisation under sulphate-reducing conditions. <i>FEMS Microbiology Ecology</i> , 2011, 77, 238-247.                                                                                           | 2.7  | 43        |
| 51 | Carbon and hydrogen stable isotope fractionation associated with the anaerobic degradation of propane and butane by marine sulfate-reducing bacteria. <i>Environmental Microbiology</i> , 2014, 16, 130-140.                                  | 3.8  | 43        |
| 52 | Time resolved protein-based stable isotope probing (Protein-SIP) analysis allows quantification of induced proteins in substrate shift experiments. <i>Proteomics</i> , 2011, 11, 2265-2274.                                                  | 2.2  | 40        |
| 53 | Sulfur Cycling and Biodegradation in Contaminated Aquifers: Insights from Stable Isotope Investigations. <i>Environmental Science &amp; Technology</i> , 2008, 42, 7807-7812.                                                                 | 10.0 | 39        |
| 54 | Anaerobic Benzene Mineralization by Nitrate-Reducing and Sulfate-Reducing Microbial Consortia Enriched From the Same Site: Comparison of Community Composition and Degradation Characteristics. <i>Microbial Ecology</i> , 2018, 75, 941-953. | 2.8  | 38        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                        | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Community dynamics within a bacterial consortium during growth on toluene under sulfate-reducing conditions. <i>FEMS Microbiology Ecology</i> , 2009, 70, 586-596.                                                                                                                             | 2.7  | 37        |
| 56 | Enhancement and monitoring of pollutant removal in a constructed wetland by microbial electrochemical technology. <i>Bioresource Technology</i> , 2015, 196, 490-499.                                                                                                                          | 9.6  | 37        |
| 57 | Analyzing sites of OH radical attack (ring vs. side chain) in oxidation of substituted benzenes via dual stable isotope analysis ( $\delta^{13}C$ and $\delta^2H$ ). <i>Science of the Total Environment</i> , 2016, 542, 484-494.                                                             | 8.0  | 36        |
| 58 | The deep-subsurface sulfate reducer <i>Desulfotomaculum kuznetsovii</i> employs two methanol-degrading pathways. <i>Nature Communications</i> , 2018, 9, 239.                                                                                                                                  | 12.8 | 36        |
| 59 | Linking Low-Level Stable Isotope Fractionation to Expression of the Cytochrome P450 Monooxygenase-Encoding <i>ethB</i> Gene for Elucidation of Methyl tert -Butyl Ether Biodegradation in Aerated Treatment Pond Systems. <i>Applied and Environmental Microbiology</i> , 2011, 77, 1086-1096. | 3.1  | 33        |
| 60 | Harvesting electricity from benzene and ammonium-contaminated groundwater using a microbial fuel cell with an aerated cathode. <i>RSC Advances</i> , 2015, 5, 5321-5330.                                                                                                                       | 3.6  | 33        |
| 61 | Chlorinated Benzenes Cause Concomitantly Oxidative Stress and Induction of Apoptotic Markers in Lung Epithelial Cells (A549) at Nonacute Toxic Concentrations. <i>Journal of Proteome Research</i> , 2011, 10, 363-378.                                                                        | 3.7  | 32        |
| 62 | Diversity and expression of different forms of RubisCO genes in polluted groundwater under different redox conditions. <i>FEMS Microbiology Ecology</i> , 2012, 79, 649-660.                                                                                                                   | 2.7  | 32        |
| 63 | Metaproteomic analysis of a sulfate-reducing enrichment culture reveals genomic organization of key enzymes in the m-xylene degradation pathway and metabolic activity of proteobacteria. <i>Systematic and Applied Microbiology</i> , 2014, 37, 488-501.                                      | 2.8  | 31        |
| 64 | Metagenome-Based Metabolic Reconstruction Reveals the Ecophysiological Function of Epsilonproteobacteria in a Hydrocarbon-Contaminated Sulfidic Aquifer. <i>Frontiers in Microbiology</i> , 2015, 6, 1396.                                                                                     | 3.5  | 31        |
| 65 | Multi tracer test for the implementation of enhanced in-situ bioremediation at a BTEX-contaminated megasite. <i>Journal of Contaminant Hydrology</i> , 2006, 87, 211-236.                                                                                                                      | 3.3  | 30        |
| 66 | Phylogenetic and Functional Diversity Within Toluene-Degrading, Sulphate-Reducing Consortia Enriched from a Contaminated Aquifer. <i>Microbial Ecology</i> , 2014, 68, 222-234.                                                                                                                | 2.8  | 30        |
| 67 | Title is missing!. <i>Water, Air and Soil Pollution</i> , 2002, 2, 161-170.                                                                                                                                                                                                                    | 0.8  | 29        |
| 68 | Evaluation of the Effects of Low Oxygen Concentration on Stable Isotope Fractionation during Aerobic MTBE Biodegradation. <i>Environmental Science &amp; Technology</i> , 2010, 44, 309-315.                                                                                                   | 10.0 | 29        |
| 69 | Pulsed $^{13}C_2$ -Acetate Protein-SIP Unveils Epsilonproteobacteria as Dominant Acetate Utilizers in a Sulfate-Reducing Microbial Community Mineralizing Benzene. <i>Microbial Ecology</i> , 2016, 71, 901-911.                                                                               | 2.8  | 29        |
| 70 | Comparison of methods for simultaneous identification of bacterial species and determination of metabolic activity by protein $\alpha$ -based stable isotope probing (Protein $\alpha$ -SIP) experiments. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1871-1878.              | 1.5  | 28        |
| 71 | A Bench-Scale Constructed Wetland As a Model to Characterize Benzene Biodegradation Processes in Freshwater Wetlands. <i>Environmental Science &amp; Technology</i> , 2011, 45, 10036-10044.                                                                                                   | 10.0 | 28        |
| 72 | Hydrogen Isotope Fractionation As a Tool to Identify Aerobic and Anaerobic PAH Biodegradation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3091-3100.                                                                                                                            | 10.0 | 28        |

| #  | ARTICLE                                                                                                                                                                                                                                                          | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Natural Attenuation Potential of Phenylarsenicals in Anoxic Groundwaters. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6989-6995.                                                                                                                   | 10.0 | 27        |
| 74 | MICROBIAL DEGRADATION OF CHLOROBENZENE UNDER OXYGEN-LIMITED CONDITIONS LEADS TO ACCUMULATION OF 3-CHLOROCATECHOL. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 265.                                                                                 | 4.3  | 26        |
| 75 | Population profiles of a stable, commensalistic bacterial culture grown with toluene under sulphate-reducing conditions. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005, 66A, 91-102.                          | 1.5  | 26        |
| 76 | Kinetics of chlorobenzene biodegradation under reduced oxygen levels. <i>Biodegradation</i> , 2008, 19, 507-518.                                                                                                                                                 | 3.0  | 26        |
| 77 | Bioremediation via in situ Microbial Degradation of Organic Pollutants. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 142, 123-146.                                                                                                           | 1.1  | 26        |
| 78 | Anaerobic biotransformation of hexachlorocyclohexane isomers by <i>Dehalococcoides</i> species and an enrichment culture. <i>Biodegradation</i> , 2018, 29, 409-418.                                                                                             | 3.0  | 26        |
| 79 | Carbon and hydrogen isotope analysis of parathion for characterizing its natural attenuation by hydrolysis at a contaminated site. <i>Water Research</i> , 2018, 143, 146-154.                                                                                   | 11.3 | 26        |
| 80 | Groundwater nitrification and denitrification are not always strictly aerobic and anaerobic processes, respectively: an assessment of dual-nitrate isotopic and chemical evidence in a stratified alluvial aquifer. <i>Biogeochemistry</i> , 2020, 147, 211-223. | 3.5  | 26        |
| 81 | Monitoring of a Simulated CO <sub>2</sub> Leakage in a Shallow Aquifer Using Stable Carbon Isotopes. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11243-11250.                                                                                      | 10.0 | 25        |
| 82 | Stable Isotope Probing Approaches to Study Anaerobic Hydrocarbon Degradation and Degraders. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2016, 26, 195-210.                                                                                      | 1.0  | 24        |
| 83 | Compound-Specific Isotope Analysis as a Tool To Characterize Biodegradation of Ethylbenzene. <i>Environmental Science &amp; Technology</i> , 2014, 48, 9122-9132.                                                                                                | 10.0 | 23        |
| 84 | Evidence for Benzylsuccinate Synthase Subtypes Obtained by Using Stable Isotope Tools. <i>Journal of Bacteriology</i> , 2013, 195, 4660-4667.                                                                                                                    | 2.2  | 21        |
| 85 | Structural analysis of microbiomes from salt caverns used for underground gas storage. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20684-20694.                                                                                                  | 7.1  | 21        |
| 86 | Assimilation of benzene carbon through multiple trophic levels traced by different stable isotope probing methodologies. <i>FEMS Microbiology Ecology</i> , 2011, 77, 357-369.                                                                                   | 2.7  | 20        |
| 87 | High resolution single cell analytics to follow microbial community dynamics in anaerobic ecosystems. <i>Methods</i> , 2012, 57, 338-349.                                                                                                                        | 3.8  | 20        |
| 88 | Sulfur- <sup>36</sup> S stable isotope labeling of amino acids for quantification (SULAQ). <i>Proteomics</i> , 2012, 12, 37-42.                                                                                                                                  | 2.2  | 20        |
| 89 | Functional analysis of an anaerobic m-xylene-degrading enrichment culture using protein-based stable isotope probing. <i>FEMS Microbiology Ecology</i> , 2012, 81, 134-144.                                                                                      | 2.7  | 20        |
| 90 | Rayleigh-Based Concept to Tackle Strong Hydrogen Fractionation in Dual Isotope Analysis—The Example of Ethylbenzene Degradation by <i>Aromatoleum aromaticum</i> . <i>Environmental Science &amp; Technology</i> , 2014, 48, 5788-5797.                          | 10.0 | 20        |

| #   | ARTICLE                                                                                                                                                                                                                                                 | IF   | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91  | Carbon and hydrogen isotopic fractionation during abiotic hydrolysis and aerobic biodegradation of phthalate esters. <i>Science of the Total Environment</i> , 2019, 660, 559-566.                                                                      | 8.0  | 20        |
| 92  | Proteome changes in human bronchoalveolar cells following styrene exposure indicate involvement of oxidative stress in the molecular response mechanism. <i>Proteomics</i> , 2009, 9, 4920-4933.                                                        | 2.2  | 19        |
| 93  | Decimal Place Slope, A Fast and Precise Method for Quantifying <sup>13</sup> C Incorporation Levels for Detecting the Metabolic Activity of Microbial Species. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1221-1227.                           | 3.8  | 19        |
| 94  | Evidence of polycyclic aromatic hydrocarbon biodegradation in a contaminated aquifer by combined application of in situ and laboratory microcosms using <sup>13</sup> C-labelled target compounds. <i>Water Research</i> , 2015, 69, 100-109.           | 11.3 | 19        |
| 95  | Pulsed gas injection: A minimum effort approach for enhanced natural attenuation of chlorobenzene in contaminated groundwater. <i>Environmental Pollution</i> , 2009, 157, 2011-2018.                                                                   | 7.5  | 17        |
| 96  | On line biomonitors used as a tool for toxicity reduction evaluation of in situ groundwater remediation techniques. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1711-1722.                                                                         | 10.1 | 15        |
| 97  | Microbial community shifts as a response to efficient degradation of chlorobenzene under hypoxic conditions. <i>Biodegradation</i> , 2008, 19, 435-446.                                                                                                 | 3.0  | 15        |
| 98  | Carbon and Hydrogen Stable Isotope Fractionation Associated with the Aerobic and Anaerobic Degradation of Saturated and Alkylated Aromatic Hydrocarbons. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2016, 26, 211-226.                | 1.0  | 15        |
| 99  | Anaerobic methane oxidation coupled to sulfate reduction in a biotrickling filter: Reactor performance and microbial community analysis. <i>Chemosphere</i> , 2019, 236, 124290.                                                                        | 8.2  | 15        |
| 100 | Dimethyl sulphoxide reduction with reduced sulphur compounds as electron donors by anoxygenic phototrophic bacteria. <i>Microbiology (United Kingdom)</i> , 1997, 143, 767-773.                                                                         | 1.8  | 14        |
| 101 | Estimation of kinetic Monod parameters for anaerobic degradation of benzene in groundwater. <i>Environmental Geology</i> , 2008, 55, 423-431.                                                                                                           | 1.2  | 14        |
| 102 | Effects of high CO <sub>2</sub> concentrations on ecophysiologicaly different microorganisms. <i>Environmental Pollution</i> , 2012, 169, 27-34.                                                                                                        | 7.5  | 13        |
| 103 | Genetic Evidence for Bacterial Chemolithoautotrophy Based on the Reductive Tricarboxylic Acid Cycle in Groundwater Systems. <i>Microbes and Environments</i> , 2012, 27, 209-214.                                                                       | 1.6  | 12        |
| 104 | Sulfur and Oxygen Isotope Fractionation During Bacterial Sulfur Disproportionation Under Anaerobic Haloalkaline Conditions. <i>Geomicrobiology Journal</i> , 2016, 33, 934-941.                                                                         | 2.0  | 12        |
| 105 | Quantifying the Mineralization of <sup>13</sup> C-Labeled Cations and Anions Reveals Differences in Microbial Biodegradation of Herbicidal Ionic Liquids between Water and Soil. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3412-3426. | 6.7  | 11        |
| 106 | Calculation of partial isotope incorporation into peptides measured by mass spectrometry. <i>BMC Research Notes</i> , 2010, 3, 178.                                                                                                                     | 1.4  | 7         |
| 107 | Dynamics of hydrocarbon mineralization characterized by isotopic analysis at a jet-fuel-contaminated site in subtropical climate. <i>Journal of Contaminant Hydrology</i> , 2020, 234, 103684.                                                          | 3.3  | 7         |
| 108 | Anaerobic benzene mineralization by natural microbial communities from Niger Delta. <i>Biodegradation</i> , 2021, 32, 37-52.                                                                                                                            | 3.0  | 6         |

| #   | ARTICLE                                                                                                                                                                                                                                                | IF  | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Monitoring of the effects of a temporally limited heat stress on microbial communities in a shallow aquifer. <i>Science of the Total Environment</i> , 2021, 781, 146377.                                                                              | 8.0 | 6         |
| 110 | Temperature management potentially affects carbon mineralization capacity and microbial community composition of a shallow aquifer. <i>FEMS Microbiology Ecology</i> , 2021, 97, .                                                                     | 2.7 | 6         |
| 111 | Structure and functional capacity of a benzene-mineralizing, nitrate-reducing microbial community. <i>Journal of Applied Microbiology</i> , 2022, 132, 2795-2811.                                                                                      | 3.1 | 6         |
| 112 | H <sub>2</sub> Kinetic Isotope Fractionation Superimposed by Equilibrium Isotope Fractionation During Hydrogenase Activity of <i>D. vulgaris</i> Strain Miyazaki. <i>Frontiers in Microbiology</i> , 2019, 10, 1545.                                   | 3.5 | 5         |
| 113 | Enrichment of Anaerobic Methanotrophs in Biotrickling Filters Using Different Sulfur Compounds as Electron Acceptor. <i>Environmental Engineering Science</i> , 2019, 36, 431-443.                                                                     | 1.6 | 5         |
| 114 | Stable Hydrogen Isotope Fractionation of Hydrogen in a Field Injection Experiment: Simulation of a Gaseous H <sub>2</sub> Leakage. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 631-641.                                                            | 2.7 | 5         |
| 115 | Analysis of Carbon and Hydrogen Stable Isotope Ratios of Phenolic Compounds: Method Development and Biodegradation Applications. <i>ACS ES&amp;T Water</i> , 2022, 2, 32-39.                                                                           | 4.6 | 5         |
| 116 | Mini-review: effect of temperature on microbial reductive dehalogenation of chlorinated ethenes: a review. <i>FEMS Microbiology Ecology</i> , 0, , .                                                                                                   | 2.7 | 5         |
| 117 | Optimierter mikrobiologischer Abbau von Chlorbenzen in In situ -Grundwasserreaktoren (SAFIRA). <i>Grundwasser</i> , 2002, 7, 156-164.                                                                                                                  | 1.4 | 4         |
| 118 | Inhibition of Nitrification by Low Oxygen Concentrations in an Aerated Treatment Pond System with Biofilm Promoting Mats. <i>Water Environment Research</i> , 2011, 83, 622-626.                                                                       | 2.7 | 4         |
| 119 | Non-linear dynamics of stable carbon and hydrogen isotope signatures based on a biological kinetic model of aerobic enzymatic methane oxidation. <i>Isotopes in Environmental and Health Studies</i> , 2016, 52, 185-202.                              | 1.0 | 4         |
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| #   | ARTICLE                                                                                                                                                       | IF  | CITATIONS |
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