

# Steffen KÃ¼mmel

## List of Publications by Year in descending order

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28  
papers

601  
citations

567281

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h-index

610901

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docs citations

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times ranked

744  
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#	ARTICLE	IF	CITATIONS
1	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
2	Uptake and Metabolization of HCH Isomers in Trees Examined over an Annual Growth Period by Compound-Specific Isotope Analysis and Enantiomer Fractionation. <i>Environmental Science &amp; Technology</i> , 2022, 56, 10120-10130.	10.0	4
3	Characterizing the biotransformation of hexachlorocyclohexanes in wheat using compound-specific stable isotope analysis and enantiomer fraction analysis. <i>Journal of Hazardous Materials</i> , 2021, 406, 124301.	12.4	17
4	Uptake of $\hat{\pm}$ -HCH by wheat from the gas phase and translocation to soil analyzed by a stable carbon isotope labeling experiment. <i>Chemosphere</i> , 2021, 264, 128489.	8.2	10
5	Carbon, hydrogen and nitrogen stable isotope fractionation allow characterizing the reaction mechanisms of 1H-benzotriazole aqueous phototransformation. <i>Water Research</i> , 2021, 203, 117519.	11.3	11
6	Soil from a Hexachlorocyclohexane Contaminated Field Site Inoculates Wheat in a Pot Experiment to Facilitate the Microbial Transformation of $\hat{2}$ -Hexachlorocyclohexane Examined by Compound-Specific Isotope Analysis. <i>Environmental Science &amp; Technology</i> , 2021, 55, 13812-13821.	10.0	13
7	Multi-element isotopic evidence for monochlorobenzene and benzene degradation under anaerobic conditions in contaminated sediments. <i>Water Research</i> , 2021, 207, 117809.	11.3	9
8	Dual $\hat{\pm}$ -Cl isotope analysis for characterizing the anaerobic transformation of $\hat{\pm}$ , $\hat{2}$ , $\hat{3}$ , and $\hat{1}$ -hexachlorocyclohexane in contaminated aquifers. <i>Water Research</i> , 2020, 184, 116128.	11.3	19
9	Simultaneous Compound-Specific Analysis of $\hat{33}$ S and $\hat{34}$ S in Organic Compounds by GC-MC-ICPMS Using Medium- and Low-Mass-Resolution Modes. <i>Analytical Chemistry</i> , 2020, 92, 14685-14692.	6.5	11
10	Compound-Specific Isotope Analysis and Enantiomer Fractionation to Characterize the Transformation of Hexachlorocyclohexane Isomers in a Soil-Wheat Pot System. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8690-8698.	10.0	22
11	Requirements for Chromium Reactors for Use in the Determination of H Isotopes in Compound-Specific Stable Isotope Analysis of Chlorinated Compounds. <i>Analytical Chemistry</i> , 2020, 92, 2383-2387.	6.5	8
12	Tracing organic carbon and microbial community structure in mineralogically different soils exposed to redox fluctuations. <i>Biogeochemistry</i> , 2019, 143, 31-54.	3.5	18
13	Individual stages of bacterial dichloromethane degradation mapped by carbon and chlorine stable isotope analysis. <i>Journal of Environmental Sciences</i> , 2019, 78, 147-160.	6.1	12
14	Distinct Carbon Isotope Fractionation Signatures during Biotic and Abiotic Reductive Transformation of Chlordecone. <i>Environmental Science &amp; Technology</i> , 2018, 52, 3615-3624.	10.0	22
15	Liquid chromatography/isotope ratio mass spectrometry analysis of halogenated benzoates for characterization of the underlying degradation reaction in <i>Thauera chlorobenzoica</i> CB $\hat{1}$ <sup>T</sup> . <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 906-912.	1.5	4
16	Enrichment of ANME $\hat{2}$ dominated anaerobic methanotrophy from cold seep sediment in an external ultrafiltration membrane bioreactor. <i>Engineering in Life Sciences</i> , 2018, 18, 368-378.	3.6	6
17	The deep-subsurface sulfate reducer <i>Desulfotomaculum kuznetsovii</i> employs two methanol-degrading pathways. <i>Nature Communications</i> , 2018, 9, 239.	12.8	36
18	Calculation of Single Cell Assimilation Rates From SIP-NanoSIMS-Derived Isotope Ratios: A Comprehensive Approach. <i>Frontiers in Microbiology</i> , 2018, 9, 2342.	3.5	29

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19	Multi-element compound specific stable isotope analysis of chlorinated aliphatic contaminants derived from chlorinated pitches. <i>Science of the Total Environment</i> , 2018, 640-641, 153-162.	8.0	15
20	Carbon and hydrogen stable isotope analysis for characterizing the chemical degradation of tributyl phosphate. <i>Chemosphere</i> , 2018, 212, 133-142.	8.2	19
21	Validation of GC-IRMS techniques for $\delta^{13}\text{C}$ and $\delta^2\text{H}$ CSIA of organophosphorus compounds and their potential for studying the mode of hydrolysis in the environment. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2581-2590.	3.7	26
22	Optimization of online hydrogen stable isotope ratio measurements of halogen- and sulfur-bearing organic compounds using elemental analyzer-chromium/high-temperature conversion isotope ratio mass spectrometry (EA-Cr/HTC-IRMS). <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 475-484.	1.5	34
23	Recent advances in multi-element compound-specific stable isotope analysis of organohalides: Achievements, challenges and prospects for assessing environmental sources and transformation. <i>Trends in Environmental Analytical Chemistry</i> , 2016, 11, 1-8.	10.3	42
24	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
25	Anaerobic naphthalene degradation by sulfate-reducing Desulfobacteraceae from various anoxic aquifers. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	2.7	67
26	Compound-Specific Hydrogen Isotope Analysis of Heteroatom-Bearing Compounds via Gas Chromatography-Chromium-Based High-Temperature Conversion (Cr/HTC)-Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 9443-9450.	6.5	74
27	A PCR-based assay for the detection of anaerobic naphthalene degradation. <i>FEMS Microbiology Letters</i> , 2014, 354, 55-59.	1.8	18
28	Evidence for Benzylsuccinate Synthase Subtypes Obtained by Using Stable Isotope Tools. <i>Journal of Bacteriology</i> , 2013, 195, 4660-4667.	2.2	21