Martin Elsner

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fully Automated Chemiluminescence Microarray Analysis Platform for Rapid and Multiplexed SARS-CoV-2 Serodiagnostics. Analytical Chemistry, 2022, 94, 2855-2864.	6.5	4
2	Linking Increased Isotope Fractionation at Low Concentrations to Enzyme Activity Regulation: 4-Cl Phenol Degradation by <i>Arthrobacter chlorophenolicus</i> A6. Environmental Science & Technology, 2022, 56, 3021-3032.	10.0	3
3	Toward Improved Bioremediation Strategies: Response of BAM-Degradation Activity to Concentration and Flow Changes in an Inoculated Bench-Scale Sediment Tank. Environmental Science & Technology, 2022, 56, 4050-4061.	10.0	1
4	Two Pathways Compete in the Mn(II)-Catalyzed Oxidation of Aminotrismethylene Phosphonate (ATMP). Environmental Science & Technology, 2022, 56, 4091-4100.	10.0	8
5	Exploring Mechanisms of Biotic Chlorinated Alkane Reduction: Evidence of Nucleophilic Substitution (S _N 2) with Vitamin B ₁₂ . Environmental Science & Technology, 2022, 56, 6325-6336.	10.0	10
6	Microplastic sampling from wastewater treatment plant effluents: Best-practices and synergies between thermoanalytical and spectroscopic analysis. Water Research, 2022, 219, 118549.	11.3	15
7	Isotope fractionation of micropollutants during large-volume extraction: heads-up from a critical method evaluation for atrazine, desethylatrazine and 2,6-dichlorobenzamide at low ng/L concentrations in groundwater. Isotopes in Environmental and Health Studies, 2021, 57, 35-52.	1.0	8
8	A Chip-Based Colony Fusion Recombinase Polymerase Amplification Assay for Monitoring of Antimicrobial Resistance Genes and Their Carrying Species in Surface Water. ACS ES&T Water, 2021, 1, 584-594.	4.6	2
9	Asc-1 regulates white versus beige adipocyte fate in a subcutaneous stromal cell population. Nature Communications, 2021, 12, 1588.	12.8	17
10	Magnitude of Diffusion- and Transverse Dispersion-Induced Isotope Fractionation of Organic Compounds in Aqueous Systems. Environmental Science & Technology, 2021, 55, 4772-4782.	10.0	7
11	Automated, flow-based chemiluminescence microarray immunoassay for the rapid multiplex detection of IgG antibodies to SARS-CoV-2 in human serum and plasma (CoVRapid CL-MIA). Analytical and Bioanalytical Chemistry, 2021, 413, 5619-5632.	3.7	12
12	Which particles to select, and if yes, how many?. Analytical and Bioanalytical Chemistry, 2021, 413, 3625-3641.	3.7	12
13	Mass-Transfer-Limited Biodegradation at Low Concentrations—Evidence from Reactive Transport Modeling of Isotope Profiles in a Bench-Scale Aquifer. Environmental Science & Technology, 2021, 55, 7386-7397.	10.0	18
14	Reviews and syntheses: Heterotrophic fixation of inorganic carbon – significant but invisible flux in environmental carbon cycling. Biogeosciences, 2021, 18, 3689-3700.	3.3	37
15	Methodological Advances to Study Contaminant Biotransformation: New Prospects for Understanding and Reducing Environmental Persistence?. ACS ES&T Water, 2021, 1, 1541-1554.	4.6	35
16	Nitrate Removal by a Novel Lithoautotrophic Nitrate-Reducing, Iron(II)-Oxidizing Culture Enriched from a Pyrite-Rich Limestone Aquifer. Applied and Environmental Microbiology, 2021, 87, e0046021.	3.1	22
17	Porphyrinic MOF Film for Multifaceted Electrochemical Sensing. Angewandte Chemie - International Edition, 2021, 60, 20551-20557.	13.8	105
18	Triple-Element Compound-Specific Stable Isotope Analysis (3D-CSIA): Added Value of Cl Isotope Ratios to Assess Herbicide Degradation. Environmental Science & amp; Technology, 2021, 55, 13891-13901.	10.0	20

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19	Isothermal haRPA detection of blaCTX-M in bacterial isolates from water samples and comparison with qPCR. Analytical Methods, 2021, 13, 552-557.	2.7	6
20	lsotope Effects on the Vaporization of Organic Compounds from an Aqueous Solution–Insight from Experiment and Computations. Journal of Physical Chemistry B, 2021, 125, 13868-13885.	2.6	5
21	Nondestructive Chemical Analysis of the Iron-Containing Protein Ferritin Using Raman Microspectroscopy. Applied Spectroscopy, 2020, 74, 193-203.	2.2	2
22	Macroporous epoxy-based monoliths for rapid quantification of Pseudomonas aeruginosa by adsorption elution method optimized for qPCR. Analytical and Bioanalytical Chemistry, 2020, 412, 8185-8195.	3.7	3
23	Substrate-dependent CO2 fixation in heterotrophic bacteria revealed by stable isotope labelling. FEMS Microbiology Ecology, 2020, 96, .	2.7	14
24	Phenotypic heterogeneity as key factor for growth and survival under oligotrophic conditions. Environmental Microbiology, 2020, 22, 3339-3356.	3.8	20
25	Simple Generation of Suspensible Secondary Microplastic Reference Particles via Ultrasound Treatment. Frontiers in Chemistry, 2020, 8, 169.	3.6	53
26	Dual-Element Isotope Analysis of Desphenylchloridazon to Investigate Its Environmental Fate in a Systematic Field Study: A Long-Term Lysimeter Experiment. Environmental Science & Technology, 2020, 54, 3929-3939.	10.0	14
27	TUM-ParticleTyper: A detection and quantification tool for automated analysis of (Microplastic) particles and fibers. PLoS ONE, 2020, 15, e0234766.	2.5	30
28	Nanoplastic Analysis by Online Coupling of Raman Microscopy and Field-Flow Fractionation Enabled by Optical Tweezers. Analytical Chemistry, 2020, 92, 5813-5820.	6.5	91
29	Compound-specific chlorine isotope fractionation in biodegradation of atrazine. Environmental Sciences: Processes and Impacts, 2020, 22, 792-801.	3.5	17
30	UVâ€ S ensitive Wearable Devices for Colorimetric Monitoring of UV Exposure. Advanced Optical Materials, 2020, 8, 1901969.	7.3	46
31	Hydrochemical and operational parameters driving carbonate scale kinetics at geothermal facilities in the Bavarian Molasse Basin. Geothermal Energy, 2020, 8, .	1.9	7
32	Mass Transfer Limitation during Slow Anaerobic Biodegradation of 2-Methylnaphthalene. Environmental Science & Technology, 2019, 53, 9481-9490.	10.0	18
33	Compound-Specific Chlorine Isotope Analysis of the Herbicides Atrazine, Acetochlor, and Metolachlor. Analytical Chemistry, 2019, 91, 14290-14298.	6.5	18
34	Toward Improved Accuracy in Chlorine Isotope Analysis: Synthesis Routes for In-House Standards and Characterization via Complementary Mass Spectrometry Methods. Analytical Chemistry, 2019, 91, 12290-12297.	6.5	11
35	NO2 and natural organic matter affect both soot aggregation behavior and sorption of S-metolachlor. Environmental Sciences: Processes and Impacts, 2019, 21, 1729-1735.	3.5	3
36	Influence of changes in microbial cell membrane composition on isotopic fractionation of nitrate during denitrification. E3S Web of Conferences, 2019, 98, 01051.	0.5	0

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37	¹³ C- and ¹⁵ N-Isotope Analysis of Desphenylchloridazon by Liquid Chromatography–Isotope-Ratio Mass Spectrometry and Derivatization Gas Chromatography–Isotope-Ratio Mass Spectrometry. Analytical Chemistry, 2019, 91, 3412-3420.	6.5	18
38	Defining lower limits of biodegradation: atrazine degradation regulated by mass transfer and maintenance demand in <i>Arthrobacter aurescens</i> TC1. ISME Journal, 2019, 13, 2236-2251.	9.8	43
39	Implementation of an open source algorithm for particle recognition and morphological characterisation for microplastic analysis by means of Raman microspectroscopy. Analytical Methods, 2019, 11, 3483-3489.	2.7	34
40	Dermal Tattoo Biosensors for Colorimetric Metabolite Detection. Angewandte Chemie, 2019, 131, 10616-10623.	2.0	23
41	Dermal Tattoo Biosensors for Colorimetric Metabolite Detection. Angewandte Chemie - International Edition, 2019, 58, 10506-10513.	13.8	53
42	Sorption properties and behaviour at laboratory scale of selected pharmaceuticals using batch experiments. Journal of Contaminant Hydrology, 2019, 225, 103500.	3.3	35
43	Biodegradation and photooxidation of phenolic compounds in soil—A compound-specific stable isotope approach. Chemosphere, 2019, 230, 210-218.	8.2	13
44	Solid-phase extraction method for stable isotope analysis of pesticides from large volume environmental water samples. Analyst, The, 2019, 144, 2898-2908.	3.5	42
45	Mechanistic Dichotomy in Bacterial Trichloroethene Dechlorination Revealed by Carbon and Chlorine Isotope Effects. Environmental Science & Technology, 2019, 53, 4245-4254.	10.0	33
46	A robust optimization technique for analysis of multi-tracer experiments. Journal of Contaminant Hydrology, 2019, 224, 103481.	3.3	3
47	Reductive Dehalogenation of Trichloromethane by Two Different <i>Dehalobacter restrictus</i> Strains Reveal Opposing Dual Element Isotope Effects. Environmental Science & Technology, 2019, 53, 2332-2343.	10.0	25
48	A Critical Review of State-of-the-Art and Emerging Approaches to Identify Fracking-Derived Gases and Associated Contaminants in Aquifers. Environmental Science & Technology, 2019, 53, 1063-1077.	10.0	56
49	Surface-enhanced Raman spectroscopy of microorganisms: limitations and applicability on the single-cell level. Analyst, The, 2019, 144, 943-953.	3.5	37
50	Methods for the analysis of submicrometer- and nanoplastic particles in the environment. TrAC - Trends in Analytical Chemistry, 2019, 112, 52-65.	11.4	289
51	Modeling of Contaminant Biodegradation and Compound-Specific Isotope Fractionation in Chemostats at Low Dilution Rates. Environmental Science & Technology, 2019, 53, 1186-1196.	10.0	11
52	Rate-Limiting Mass Transfer in Micropollutant Degradation Revealed by Isotope Fractionation in Chemostat. Environmental Science & amp; Technology, 2019, 53, 1197-1205.	10.0	38
53	δ ¹³ C and δ ³⁷ Cl Isotope Fractionation To Characterize Aerobic vs Anaerobic Degradation of Trichloroethylene. Environmental Science and Technology Letters, 2018, 5, 202-208.	8.7	17
54	Chlorinated Ethene Reactivity with Vitamin B ₁₂ Is Governed by Cobalamin Chloroethylcarbanions as Crossroads of Competing Pathways. ACS Catalysis, 2018, 8, 3054-3066.	11.2	38

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55	lsotope Fractionation Pinpoints Membrane Permeability as a Barrier to Atrazine Biodegradation in Gram-negative <i>Polaromonas sp.</i> Nea-C. Environmental Science & Technology, 2018, 52, 4137-4144.	10.0	36
56	Stable-isotope Raman microspectroscopy for the analysis of soil organic matter. Analytical and Bioanalytical Chemistry, 2018, 410, 923-931.	3.7	10
57	Adsorbing vs. Nonadsorbing Tracers for Assessing Pesticide Transport in Arable Soils. Vadose Zone Journal, 2018, 17, 1-18.	2.2	11
58	Raman microspectroscopy as a tool for microplastic particle analysis. TrAC - Trends in Analytical Chemistry, 2018, 109, 214-226.	11.4	185
59	High Permeation Rates in Liposome Systems Explain Rapid Glyphosate Biodegradation Associated with Strong Isotope Fractionation. Environmental Science & Technology, 2018, 52, 7259-7268.	10.0	18
60	Solvent stress-induced changes in membrane fatty acid composition of denitrifying bacteria reduce the extent of nitrogen stable isotope fractionation during denitrification. Geochimica Et Cosmochimica Acta, 2018, 239, 275-283.	3.9	8
61	Chronic d-serine supplementation impairs insulin secretion. Molecular Metabolism, 2018, 16, 191-202.	6.5	29
62	Dual element (C Cl) isotope approach to distinguish abiotic reactions of chlorinated methanes by Fe(0) and by Fe(II) on iron minerals at neutral and alkaline pH. Chemosphere, 2018, 206, 447-456.	8.2	14
63	Distinct Dual C–Cl Isotope Fractionation Patterns during Anaerobic Biodegradation of 1,2-Dichloroethane: Potential To Characterize Microbial Degradation in the Field. Environmental Science & Technology, 2017, 51, 2685-2694.	10.0	34
64	Compound-Specific Chlorine Isotope Analysis of Tetrachloromethane and Trichloromethane by Gas Chromatography-Isotope Ratio Mass Spectrometry vs Gas Chromatography-Quadrupole Mass Spectrometry: Method Development and Evaluation of Precision and Trueness. Analytical Chemistry, 2017, 89, 3411-3420.	6.5	28
65	Contrasting dual (C, Cl) isotope fractionation offers potential to distinguish reductive chloroethene transformation from breakdown by permanganate. Science of the Total Environment, 2017, 596-597, 169-177.	8.0	16
66	Carbon and Chlorine Isotope Fractionation Patterns Associated with Different Engineered Chloroform Transformation Reactions. Environmental Science & Technology, 2017, 51, 6174-6184.	10.0	39
67	Experimental Determination of Isotope Enrichment Factors – Bias from Mass Removal by Repetitive Sampling. Environmental Science & Technology, 2017, 51, 1527-1536.	10.0	21
68	Introduction of a new platform for parameter estimation of kinetically complex environmental systems. Environmental Modelling and Software, 2017, 98, 12-20.	4.5	15
69	Monitoring Microbial Mineralization Using Reverse Stable Isotope Labeling Analysis by Mid-Infrared Laser Spectroscopy. Environmental Science & Technology, 2017, 51, 11876-11883.	10.0	16
70	Reductive Outer-Sphere Single Electron Transfer Is an Exception Rather than the Rule in Natural and Engineered Chlorinated Ethene Dehalogenation. Environmental Science & Technology, 2017, 51, 9663-9673.	10.0	30
71	Response and recovery of a pristine groundwater ecosystem impacted by toluene contamination – A meso-scale indoor aquifer experiment. Journal of Contaminant Hydrology, 2017, 207, 17-30.	3.3	22
72	Calibration bias of experimentally determined chlorine isotope enrichment factors: the need for a twoâ€point calibration in compoundâ€specific chlorine isotope analysis. Rapid Communications in Mass Spectrometry, 2017, 31, 68-74.	1.5	9

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73	Geochemical and microbial community determinants of reductive dechlorination at a site biostimulated with glycerol. Environmental Microbiology, 2017, 19, 968-981.	3.8	47
74	Triple-element compound-specific stable isotope analysis of 1,2-dichloroethane for characterization of the underlying dehalogenation reaction in two Dehalococcoides mccartyi strains. FEMS Microbiology Ecology, 2017, 93, .	2.7	19
75	Quantitative Survey and Structural Classification of Hydraulic Fracturing Chemicals Reported in Unconventional Gas Production. Environmental Science & Technology, 2016, 50, 3290-3314.	10.0	154
76	Compound-Specific Stable Isotope Fractionation of Pesticides and Pharmaceuticals in a Mesoscale Aquifer Model. Environmental Science & Technology, 2016, 50, 5729-5739.	10.0	21
77	Compound-specific isotope analysis (CSIA) of micropollutants in the environment — current developments and future challenges. Current Opinion in Biotechnology, 2016, 41, 60-72.	6.6	131
78	Exploring Trends of C and N Isotope Fractionation to Trace Transformation Reactions of Diclofenac in Natural and Engineered Systems. Environmental Science & Technology, 2016, 50, 10933-10942.	10.0	17
79	Indications of Transformation Products from Hydraulic Fracturing Additives in Shale-Gas Wastewater. Environmental Science & Technology, 2016, 50, 8036-8048.	10.0	96
80	Organic Reference Materials for Hydrogen, Carbon, and Nitrogen Stable Isotope-Ratio Measurements: Caffeines, <i>n</i> -Alkanes, Fatty Acid Methyl Esters, Glycines, <scp>I</scp> -Valines, Polyethylenes, and Oils. Analytical Chemistry, 2016, 88, 4294-4302.	6.5	126
81	Biodegradation: Updating the Concepts of Control for Microbial Cleanup in Contaminated Aquifers. Environmental Science & Technology, 2015, 49, 7073-7081.	10.0	211
82	Improved constraints on in situ rates and on quantification of complete chloroethene degradation from stable carbon isotope mass balances in groundwater plumes. Journal of Contaminant Hydrology, 2015, 182, 173-182.	3.3	11
83	Pre-drilling background groundwater quality in the Deep River Triassic Basin of central North Carolina, USA. Applied Geochemistry, 2015, 60, 3-13.	3.0	10
84	Protocol to Investigate Volatile Aromatic Hydrocarbon Degradation with Purge and Trap Coupled to a Gas Chromatograph/Isotope Ratio Mass Spectrometer. Springer Protocols, 2015, , 259-288.	0.3	1
85	Characteristic Isotope Fractionation Patterns in <i>s</i> -Triazine Degradation Have Their Origin in Multiple Protonation Options in the <i>s</i> -Triazine Hydrolase TrzN. Environmental Science & amp; Technology, 2015, 49, 3490-3498.	10.0	26
86	Natural Gas Residual Fluids: Sources, Endpoints, and Organic Chemical Composition after Centralized Waste Treatment in Pennsylvania. Environmental Science & Technology, 2015, 49, 8347-8355.	10.0	74
87	Comment on the German Draft Legislation on Hydraulic Fracturing: The Need for an Accurate State of Knowledge and for Independent Scientific Research. Environmental Science & Technology, 2015, 49, 6367-6369.	10.0	7
88	Dual element (15N/14N, 13C/12C) isotope analysis of glyphosate and AMPA by derivatization-gas chromatography isotope ratio mass spectrometry (GC/IRMS) combined with LC/IRMS. Analytical and Bioanalytical Chemistry, 2015, 407, 5249-5260.	3.7	26
89	Fate of Four Herbicides in an Irrigated Field Cropped with Corn: Lysimeter Experiments. Procedia Earth and Planetary Science, 2015, 13, 158-161.	0.6	3
90	Elevated levels of diesel range organic compounds in groundwater near Marcellus gas operations are derived from surface activities. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13184-13189.	7.1	130

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91	C, Cl and H compound-specific isotope analysis to assess natural versus Fe(0) barrier-induced degradation of chlorinated ethenes at a contaminated site. Journal of Hazardous Materials, 2015, 299, 747-754.	12.4	30
92	Combined C and Cl Isotope Effects Indicate Differences between Corrinoids and Enzyme (<i>Sulfurospirillum multivorans</i> PceA) in Reductive Dehalogenation of Tetrachloroethene, But Not Trichloroethene. Environmental Science & Technology, 2014, 48, 11837-11845.	10.0	71
93	Intrinsic potential for immediate biodegradation of toluene in a pristine, energy-limited aquifer. Biodegradation, 2014, 25, 325-336.	3.0	17
94	Cytochrome P450-catalyzed dealkylation of atrazine by <i>Rhodococcus</i> sp. strain NI86/21 involves hydrogen atom transfer rather than single electron transfer. Dalton Transactions, 2014, 43, 12175-12186.	3.3	53
95	C & N Isotope Analysis of Diclofenac to Distinguish Oxidative and Reductive Transformation and to Track Commercial Products. Environmental Science & Technology, 2014, 48, 2312-2320.	10.0	31
96	Small ¹³ C/ ¹² C Fractionation Contrasts with Large Enantiomer Fractionation in Aerobic Biodegradation of Phenoxy Acids. Environmental Science & Technology, 2014, 48, 5501-5511.	10.0	31
97	C and Cl Isotope Fractionation of 1,2-Dichloroethane Displays Unique δ ¹³ C/δ ³⁷ Cl Patterns for Pathway Identification and Reveals Surprising C–Cl Bond Involvement in Microbial Oxidation. Environmental Science & Technology, 2014, 48, 9430-9437.	10.0	53
98	Controls of event-based pesticide leaching in natural soils: A systematic study based on replicated field scale irrigation experiments. Journal of Hydrology, 2014, 512, 528-539.	5.4	32
99	Chlorine Isotope Effects from Isotope Ratio Mass Spectrometry Suggest Intramolecular C-Cl Bond Competition in Trichloroethene (TCE) Reductive Dehalogenation. Molecules, 2014, 19, 6450-6473.	3.8	43
100	Predicting Pesticide Attenuation in a Fractured Aquifer Using Lumpedâ€Parameter Models. Ground Water, 2013, 51, 276-285.	1.3	16
101	Enantioselective stable isotope analysis (ESIA) of polar herbicides. Analytical and Bioanalytical Chemistry, 2013, 405, 2825-2831.	3.7	19
102	Compound-specific isotope analysis of benzotriazole and its derivatives. Analytical and Bioanalytical Chemistry, 2013, 405, 2843-2856.	3.7	36
103	Carbon and nitrogen isotope analysis of atrazine and desethylatrazine at sub-microgram per liter concentrations in groundwater. Analytical and Bioanalytical Chemistry, 2013, 405, 2857-2867.	3.7	52
104	Evaluating Pesticide Degradation in the Environment: Blind Spots and Emerging Opportunities. Science, 2013, 341, 752-758.	12.6	835
105	Delineating spring recharge areas in a fractured sandstone aquifer (Luxembourg) based on pesticide mass balance. Hydrogeology Journal, 2013, 21, 799-812.	2.1	10
106	Combined isotope and enantiomer analysis to assess the fate of phenoxy acids in a heterogeneous geologic setting at an old landfill. Water Research, 2013, 47, 637-649.	11.3	35
107	Cl and C isotope analysis to assess the effectiveness of chlorinated ethene degradation by zero-valent iron: Evidence from dual element and product isotope values. Applied Geochemistry, 2013, 32, 175-183.	3.0	42
108	¹³ C/ ¹² C and ¹⁵ N/ ¹⁴ N Isotope Analysis To Characterize Degradation of Atrazine: Evidence from Parent and Daughter Compound Values. Environmental Science & Technology, 2013, 47, 6884-6891.	10.0	30

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109	Model Complexity Needed for Quantitative Analysis of High Resolution Isotope and Concentration Data from a Toluene-Pulse Experiment. Environmental Science & Technology, 2013, 47, 6900-6907.	10.0	24
110	Direct Experimental Evidence of Non-first Order Degradation Kinetics and Sorption-Induced Isotopic Fractionation in a Mesoscale Aquifer: ¹³ C/ ¹² C Analysis of a Transient Toluene Pulse. Environmental Science & Technology, 2013, 47, 6892-6899.	10.0	19
111	Reductive Dechlorination of TCE by Chemical Model Systems in Comparison to Dehalogenating Bacteria: Insights from Dual Element Isotope Analysis (¹³ C/ ¹² C,) Tj ETQq1 1 0.78431	4 r gð.ī o/Ov	ver b æk 10 TFS
112	Macropore flow of old water revisited: experimental insights from a tile-drained hillslope. Hydrology and Earth System Sciences, 2013, 17, 103-118.	4.9	112
113	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
114	Gas chromatography/isotope ratio mass spectrometry of recalcitrant target compounds: performance of different combustion reactors and strategies for standardization. Rapid Communications in Mass Spectrometry, 2012, 26, 1053-1060.	1.5	31
115	Current challenges in compound-specific stable isotope analysis of environmental organic contaminants. Analytical and Bioanalytical Chemistry, 2012, 403, 2471-2491.	3.7	234
116	Dual (C, H) Isotope Fractionation in Anaerobic Low Molecular Weight (Poly)aromatic Hydrocarbon (PAH) Degradation: Potential for Field Studies and Mechanistic Implications. Environmental Science & Technology, 2011, 45, 6947-6953.	10.0	46
117	Current Perspectives on the Mechanisms of Chlorohydrocarbon Degradation in Subsurface Environments: Insight from Kinetics, Product Formation, Probe Molecules, and Isotope Fractionation. ACS Symposium Series, 2011, , 407-439.	0.5	29
118	Compound-Specific Chlorine Isotope Analysis: A Comparison of Gas Chromatography/Isotope Ratio Mass Spectrometry and Gas Chromatography/Quadrupole Mass Spectrometry Methods in an Interlaboratory Study. Analytical Chemistry, 2011, 83, 7624-7634.	6.5	101
119	Carbon Isotope Analysis to Evaluate Nanoscale Fe(O) Treatment at a Chlorohydrocarbon Contaminated Site. Ground Water Monitoring and Remediation, 2010, 30, 79-95.	0.8	21
120	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
121	Small and Reproducible Isotope Effects during Methylation with Trimethylsulfonium Hydroxide (TMSH): A Convenient Derivatization Method for Isotope Analysis of Negatively Charged Molecules. Analytical Chemistry, 2010, 82, 2013-2019.	6.5	35
122	Quantitative Site-Specific ² H NMR Investigation of MTBE: Potential for Assessing Contaminant Sources and Fate. Environmental Science & Technology, 2010, 44, 1062-1068.	10.0	19
123	Stable isotope fractionation to investigate natural transformation mechanisms of organic contaminants: principles, prospects and limitations. Journal of Environmental Monitoring, 2010, 12, 2005.	2.1	303
124	Isotopic Fractionation of Methyl <i>tert</i> Butyl Ether Suggests Different Initial Reaction Mechanisms during Aerobic Biodegradation. Environmental Science & Technology, 2009, 43, 2793-2799.	10.0	50
125	Modeling Chlorine Isotope Trends during Sequential Transformation of Chlorinated Ethenes. Environmental Science & Technology, 2009, 43, 6750-6756.	10.0	70
126	C and N Isotope Fractionation Suggests Similar Mechanisms of Microbial Atrazine Transformation Despite Involvement of Different Enzymes (AtzA and TrzN). Environmental Science & 2009, 2009. 43. 8079-8085.	10.0	96

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127	Principles and Mechanisms of Isotope Fractionation. , 2009, , 43-77.		8
128	Evaluating Chlorine Isotope Effects from Isotope Ratios and Mass Spectra of Polychlorinated Molecules. Analytical Chemistry, 2008, 80, 4731-4740.	6.5	50
129	Identifying Abiotic Chlorinated Ethene Degradation: Characteristic Isotope Patterns in Reaction Products with Nanoscale Zero-Valent Iron. Environmental Science & Technology, 2008, 42, 5963-5970.	10.0	96
130	Isotopic Evidence Suggests Different Initial Reaction Mechanisms for Anaerobic Benzene Biodegradation. Environmental Science & Technology, 2008, 42, 8290-8296.	10.0	70
131	Precise and Accurate Compound Specific Carbon and Nitrogen Isotope Analysis of Atrazine: Critical Role of Combustion Oven Conditions. Environmental Science & Technology, 2008, 42, 7757-7763.	10.0	58
132	Rate-Dependent Carbon and Nitrogen Kinetic Isotope Fractionation in Hydrolysis of Isoproturon. Environmental Science & Technology, 2008, 42, 7764-7771.	10.0	29
133	Potential for Identifying Abiotic Chloroalkane Degradation Mechanisms using Carbon Isotopic Fractionation. Environmental Science & Technology, 2008, 42, 126-132.	10.0	46
134	1,1,2,2-Tetrachloroethane Reactions with OH-, Cr(II), Granular Iron, and a Copperâ´'Iron Bimetal:Â Insights from Product Formation and Associated Carbon Isotope Fractionation. Environmental Science & Technology, 2007, 41, 4111-4117.	10.0	62
135	Intramolecular Carbon and Nitrogen Isotope Analysis by Quantitative Dry Fragmentation of the Phenylurea Herbicide Isoproturon in a Combined Injector/Capillary Reactor Prior to GC Separation. Analytical Chemistry, 2007, 79, 8399-8405.	6.5	27
136	Insight into Methyl <i>tert</i> Butyl Ether (MTBE) Stable Isotope Fractionation from Abiotic Reference Experiments. Environmental Science & Technology, 2007, 41, 5693-5700.	10.0	108
137	Response to Comment on "1,1,2,2-Tetrachloroethane Reactions with OH ⁻ , Cr(II), Granular Iron, and a Copperâ`lron Bimetal:  Insights from Product Formation and Associated Carbon Isotope Fractionation― Environmental Science & Technology, 2007, 41, 7949-7950.	10.0	9
138	Effects of Trace Element Concentration on Enzyme Controlled Stable Isotope Fractionation during Aerobic Biodegradation of Toluene. Environmental Science & Technology, 2006, 40, 7675-7681.	10.0	60
139	Freezing To Preserve Groundwater Samples and Improve Headspace Quantification Limits of Water-Soluble Organic Contaminants for Carbon Isotope Analysis. Analytical Chemistry, 2006, 78, 7528-7534.	6.5	31
140	A New Concept Linking Observable Stable Isotope Fractionation to Transformation Pathways of Organic Pollutants. Environmental Science & Technology, 2005, 39, 6896-6916.	10.0	486
141	Response to Comment on "New Evaluation Scheme for Two-Dimensional Isotope Analysis to Decipher Biodegradation Processes: Application to Groundwater Contamination by MTBE― Environmental Science & Technology, 2005, 39, 8543-8544.	10.0	5
142	Carbon Isotopic Fractionation during Aerobic Vinyl Chloride Degradation. Environmental Science & Technology, 2005, 39, 1064-1070.	10.0	48
143	New Evaluation Scheme for Two-Dimensional Isotope Analysis to Decipher Biodegradation Processes:Â Application to Groundwater Contamination by MTBE. Environmental Science & Technology, 2005, 39, 1018-1029.	10.0	184
144	New Evaluation Scheme for Two-Dimensional Isotope Analysis to Decipher Biodegradation Processes:Â Application to Groundwater Contamination by MTBE. Environmental Science & Technology, 2005, 39. 7344-7344.	10.0	18

#	Article	IF	CITATIONS
145	Carbon Isotope Fractionation in the Reductive Dehalogenation of Carbon Tetrachloride at Iron (Hydr)Oxide and Iron Sulfide Minerals. Environmental Science & Technology, 2005, 39, 5634-5641.	10.0	63
146	Compound-specific stable isotope analysis of organic contaminants in natural environments: a critical review of the state of the art, prospects, and future challenges. Analytical and Bioanalytical Chemistry, 2004, 378, 283-300.	3.7	319
147	Pathway Dependent Isotopic Fractionation during Aerobic Biodegradation of 1,2-Dichloroethane. Environmental Science & Technology, 2004, 38, 4775-4781.	10.0	74
148	Mechanisms and Products of Surface-Mediated Reductive Dehalogenation of Carbon Tetrachloride by Fe(II) on Goethite. Environmental Science & Technology, 2004, 38, 2058-2066.	10.0	121
149	Reactivity of Fe(II)-Bearing Minerals toward Reductive Transformation of Organic Contaminants. Environmental Science & Technology, 2004, 38, 799-807.	10.0	345