

Martin Elsner

List of Publications by Year in descending order

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149
papers

8,263
citations

61687

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60403

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times ranked

7017
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully Automated Chemiluminescence Microarray Analysis Platform for Rapid and Multiplexed SARS-CoV-2 Serodiagnostics. <i>Analytical Chemistry</i> , 2022, 94, 2855-2864.	3.2	4
2	Linking Increased Isotope Fractionation at Low Concentrations to Enzyme Activity Regulation: 4-Cl Phenol Degradation by <i>Arthrobacter chlorophenolicus</i> A6. <i>Environmental Science & Technology</i> , 2022, 56, 3021-3032.	4.6	3
3	Toward Improved Bioremediation Strategies: Response of BAM-Degradation Activity to Concentration and Flow Changes in an Inoculated Bench-Scale Sediment Tank. <i>Environmental Science & Technology</i> , 2022, 56, 4050-4061.	4.6	1
4	Two Pathways Compete in the Mn(II)-Catalyzed Oxidation of Aminotrismethylene Phosphonate (ATMP). <i>Environmental Science & Technology</i> , 2022, 56, 4091-4100.	4.6	8
5	Exploring Mechanisms of Biotic Chlorinated Alkane Reduction: Evidence of Nucleophilic Substitution (S_N2) with Vitamin B ₁₂ . <i>Environmental Science & Technology</i> , 2022, 56, 6325-6336.	4.6	10
6	Microplastic sampling from wastewater treatment plant effluents: Best-practices and synergies between thermoanalytical and spectroscopic analysis. <i>Water Research</i> , 2022, 219, 118549.	5.3	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. <i>Isotopes in Environmental and Health Studies</i> , 2021, 57, 35-52.	0.5	8
8	A Chip-Based Colony Fusion Recombinase Polymerase Amplification Assay for Monitoring of Antimicrobial Resistance Genes and Their Carrying Species in Surface Water. <i>ACS ES&T Water</i> , 2021, 1, 584-594.	2.3	2
9	Asc-1 regulates white versus beige adipocyte fate in a subcutaneous stromal cell population. <i>Nature Communications</i> , 2021, 12, 1588.	5.8	17
10	Magnitude of Diffusion- and Transverse Dispersion-Induced Isotope Fractionation of Organic Compounds in Aqueous Systems. <i>Environmental Science & Technology</i> , 2021, 55, 4772-4782.	4.6	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). <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5619-5632.	1.9	12
12	Which particles to select, and if yes, how many?. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3625-3641.	1.9	12
13	Mass-Transfer-Limited Biodegradation at Low Concentrations—Evidence from Reactive Transport Modeling of Isotope Profiles in a Bench-Scale Aquifer. <i>Environmental Science & Technology</i> , 2021, 55, 7386-7397.	4.6	18
14	Reviews and syntheses: Heterotrophic fixation of inorganic carbon—significant but invisible flux in environmental carbon cycling. <i>Biogeosciences</i> , 2021, 18, 3689-3700.	1.3	37
15	Methodological Advances to Study Contaminant Biotransformation: New Prospects for Understanding and Reducing Environmental Persistence?. <i>ACS ES&T Water</i> , 2021, 1, 1541-1554.	2.3	35
16	Nitrate Removal by a Novel Lithoautotrophic Nitrate-Reducing, Iron(II)-Oxidizing Culture Enriched from a Pyrite-Rich Limestone Aquifer. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0046021.	1.4	22
17	Porphyric MOF Film for Multifaceted Electrochemical Sensing. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20551-20557.	7.2	105
18	Triple-Element Compound-Specific Stable Isotope Analysis (3D-CSIA): Added Value of Cl Isotope Ratios to Assess Herbicide Degradation. <i>Environmental Science & Technology</i> , 2021, 55, 13891-13901.	4.6	20

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19	Isothermal haRPA detection of blaCTX-M in bacterial isolates from water samples and comparison with qPCR. <i>Analytical Methods</i> , 2021, 13, 552-557.	1.3	6
20	Isotope Effects on the Vaporization of Organic Compounds from an Aqueous Solution – Insight from Experiment and Computations. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13868-13885.	1.2	5
21	Nondestructive Chemical Analysis of the Iron-Containing Protein Ferritin Using Raman Microspectroscopy. <i>Applied Spectroscopy</i> , 2020, 74, 193-203.	1.2	2
22	Macroporous epoxy-based monoliths for rapid quantification of <i>Pseudomonas aeruginosa</i> by adsorption elution method optimized for qPCR. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8185-8195.	1.9	3
23	Substrate-dependent CO ₂ fixation in heterotrophic bacteria revealed by stable isotope labelling. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	14
24	Phenotypic heterogeneity as key factor for growth and survival under oligotrophic conditions. <i>Environmental Microbiology</i> , 2020, 22, 3339-3356.	1.8	20
25	Simple Generation of Suspensible Secondary Microplastic Reference Particles via Ultrasound Treatment. <i>Frontiers in Chemistry</i> , 2020, 8, 169.	1.8	53
26	Dual-Element Isotope Analysis of Desphenylchloridazon to Investigate Its Environmental Fate in a Systematic Field Study: A Long-Term Lysimeter Experiment. <i>Environmental Science & Technology</i> , 2020, 54, 3929-3939.	4.6	14
27	TUM-ParticleTyper: A detection and quantification tool for automated analysis of (Microplastic) particles and fibers. <i>PLoS ONE</i> , 2020, 15, e0234766.	1.1	30
28	Nanoplastic Analysis by Online Coupling of Raman Microscopy and Field-Flow Fractionation Enabled by Optical Tweezers. <i>Analytical Chemistry</i> , 2020, 92, 5813-5820.	3.2	91
29	Compound-specific chlorine isotope fractionation in biodegradation of atrazine. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 792-801.	1.7	17
30	UV-sensitive Wearable Devices for Colorimetric Monitoring of UV Exposure. <i>Advanced Optical Materials</i> , 2020, 8, 1901969.	3.6	46
31	Hydrochemical and operational parameters driving carbonate scale kinetics at geothermal facilities in the Bavarian Molasse Basin. <i>Geothermal Energy</i> , 2020, 8, .	0.9	7
32	Mass Transfer Limitation during Slow Anaerobic Biodegradation of 2-Methylnaphthalene. <i>Environmental Science & Technology</i> , 2019, 53, 9481-9490.	4.6	18
33	Compound-Specific Chlorine Isotope Analysis of the Herbicides Atrazine, Acetochlor, and Metolachlor. <i>Analytical Chemistry</i> , 2019, 91, 14290-14298.	3.2	18
34	Toward Improved Accuracy in Chlorine Isotope Analysis: Synthesis Routes for In-House Standards and Characterization via Complementary Mass Spectrometry Methods. <i>Analytical Chemistry</i> , 2019, 91, 12290-12297.	3.2	11
35	NO ₂ and natural organic matter affect both soot aggregation behavior and sorption of S-metolachlor. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1729-1735.	1.7	3
36	Influence of changes in microbial cell membrane composition on isotopic fractionation of nitrate during denitrification. <i>E3S Web of Conferences</i> , 2019, 98, 01051.	0.2	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. <i>Analytical Chemistry</i> , 2019, 91, 3412-3420.	3.2	18
38	Defining lower limits of biodegradation: atrazine degradation regulated by mass transfer and maintenance demand in <i>Arthrobacter aurescens</i> TC1. <i>ISME Journal</i> , 2019, 13, 2236-2251.	4.4	43
39	Implementation of an open source algorithm for particle recognition and morphological characterisation for microplastic analysis by means of Raman microspectroscopy. <i>Analytical Methods</i> , 2019, 11, 3483-3489.	1.3	34
40	Dermal Tattoo Biosensors for Colorimetric Metabolite Detection. <i>Angewandte Chemie</i> , 2019, 131, 10616-10623.	1.6	23
41	Dermal Tattoo Biosensors for Colorimetric Metabolite Detection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10506-10513.	7.2	53
42	Sorption properties and behaviour at laboratory scale of selected pharmaceuticals using batch experiments. <i>Journal of Contaminant Hydrology</i> , 2019, 225, 103500.	1.6	35
43	Biodegradation and photooxidation of phenolic compounds in soil—A compound-specific stable isotope approach. <i>Chemosphere</i> , 2019, 230, 210-218.	4.2	13
44	Solid-phase extraction method for stable isotope analysis of pesticides from large volume environmental water samples. <i>Analyst, The</i> , 2019, 144, 2898-2908.	1.7	42
45	Mechanistic Dichotomy in Bacterial Trichloroethene Dechlorination Revealed by Carbon and Chlorine Isotope Effects. <i>Environmental Science & Technology</i> , 2019, 53, 4245-4254.	4.6	33
46	A robust optimization technique for analysis of multi-tracer experiments. <i>Journal of Contaminant Hydrology</i> , 2019, 224, 103481.	1.6	3
47	Reductive Dehalogenation of Trichloromethane by Two Different <i>Dehalobacter restrictus</i> Strains Reveal Opposing Dual Element Isotope Effects. <i>Environmental Science & Technology</i> , 2019, 53, 2332-2343.	4.6	25
48	A Critical Review of State-of-the-Art and Emerging Approaches to Identify Fracking-Derived Gases and Associated Contaminants in Aquifers. <i>Environmental Science & Technology</i> , 2019, 53, 1063-1077.	4.6	56
49	Surface-enhanced Raman spectroscopy of microorganisms: limitations and applicability on the single-cell level. <i>Analyst, The</i> , 2019, 144, 943-953.	1.7	37
50	Methods for the analysis of submicrometer- and nanoplastic particles in the environment. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 112, 52-65.	5.8	289
51	Modeling of Contaminant Biodegradation and Compound-Specific Isotope Fractionation in Chemostats at Low Dilution Rates. <i>Environmental Science & Technology</i> , 2019, 53, 1186-1196.	4.6	11
52	Rate-Limiting Mass Transfer in Micropollutant Degradation Revealed by Isotope Fractionation in Chemostat. <i>Environmental Science & Technology</i> , 2019, 53, 1197-1205.	4.6	38
53	¹³ C and ³⁷ Cl Isotope Fractionation To Characterize Aerobic vs Anaerobic Degradation of Trichloroethylene. <i>Environmental Science and Technology Letters</i> , 2018, 5, 202-208.	3.9	17
54	Chlorinated Ethene Reactivity with Vitamin B ₁₂ Is Governed by Cobalamin Chloroethylcarbanions as Crossroads of Competing Pathways. <i>ACS Catalysis</i> , 2018, 8, 3054-3066.	5.5	38

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55	Isotope Fractionation Pinpoints Membrane Permeability as a Barrier to Atrazine Biodegradation in Gram-negative <i>Pseudomonas</i> sp. <i>Nea-C</i> . <i>Environmental Science & Technology</i> , 2018, 52, 4137-4144.	4.6	36
56	Stable-isotope Raman microspectroscopy for the analysis of soil organic matter. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 923-931.	1.9	10
57	Adsorbing vs. Nonadsorbing Tracers for Assessing Pesticide Transport in Arable Soils. <i>Vadose Zone Journal</i> , 2018, 17, 1-18.	1.3	11
58	Raman microspectroscopy as a tool for microplastic particle analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 109, 214-226.	5.8	185
59	High Permeation Rates in Liposome Systems Explain Rapid Glyphosate Biodegradation Associated with Strong Isotope Fractionation. <i>Environmental Science & Technology</i> , 2018, 52, 7259-7268.	4.6	18
60	Solvent stress-induced changes in membrane fatty acid composition of denitrifying bacteria reduce the extent of nitrogen stable isotope fractionation during denitrification. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 275-283.	1.6	8
61	Chronic d-serine supplementation impairs insulin secretion. <i>Molecular Metabolism</i> , 2018, 16, 191-202.	3.0	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. <i>Chemosphere</i> , 2018, 206, 447-456.	4.2	14
63	Distinct Dual C-Cl Isotope Fractionation Patterns during Anaerobic Biodegradation of 1,2-Dichloroethane: Potential To Characterize Microbial Degradation in the Field. <i>Environmental Science & Technology</i> , 2017, 51, 2685-2694.	4.6	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. <i>Analytical Chemistry</i> , 2017, 89, 3411-3420.	3.2	28
65	Contrasting dual (C, Cl) isotope fractionation offers potential to distinguish reductive chloroethene transformation from breakdown by permanganate. <i>Science of the Total Environment</i> , 2017, 596-597, 169-177.	3.9	16
66	Carbon and Chlorine Isotope Fractionation Patterns Associated with Different Engineered Chloroform Transformation Reactions. <i>Environmental Science & Technology</i> , 2017, 51, 6174-6184.	4.6	39
67	Experimental Determination of Isotope Enrichment Factors ϵ Bias from Mass Removal by Repetitive Sampling. <i>Environmental Science & Technology</i> , 2017, 51, 1527-1536.	4.6	21
68	Introduction of a new platform for parameter estimation of kinetically complex environmental systems. <i>Environmental Modelling and Software</i> , 2017, 98, 12-20.	1.9	15
69	Monitoring Microbial Mineralization Using Reverse Stable Isotope Labeling Analysis by Mid-Infrared Laser Spectroscopy. <i>Environmental Science & Technology</i> , 2017, 51, 11876-11883.	4.6	16
70	Reductive Outer-Sphere Single Electron Transfer Is an Exception Rather than the Rule in Natural and Engineered Chlorinated Ethene Dehalogenation. <i>Environmental Science & Technology</i> , 2017, 51, 9663-9673.	4.6	30
71	Response and recovery of a pristine groundwater ecosystem impacted by toluene contamination ϵ A meso-scale indoor aquifer experiment. <i>Journal of Contaminant Hydrology</i> , 2017, 207, 17-30.	1.6	22
72	Calibration bias of experimentally determined chlorine isotope enrichment factors: the need for a two-point calibration in compound-specific chlorine isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 68-74.	0.7	9

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73	Geochemical and microbial community determinants of reductive dechlorination at a site biostimulated with glycerol. <i>Environmental Microbiology</i> , 2017, 19, 968-981.	1.8	47
74	Triple-element compound-specific stable isotope analysis of 1,2-dichloroethane for characterization of the underlying dehalogenation reaction in two <i>Dehalococcoides mccartyi</i> strains. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	1.3	19
75	Quantitative Survey and Structural Classification of Hydraulic Fracturing Chemicals Reported in Unconventional Gas Production. <i>Environmental Science & Technology</i> , 2016, 50, 3290-3314.	4.6	154
76	Compound-Specific Stable Isotope Fractionation of Pesticides and Pharmaceuticals in a Mesoscale Aquifer Model. <i>Environmental Science & Technology</i> , 2016, 50, 5729-5739.	4.6	21
77	Compound-specific isotope analysis (CSIA) of micropollutants in the environment – current developments and future challenges. <i>Current Opinion in Biotechnology</i> , 2016, 41, 60-72.	3.3	131
78	Exploring Trends of C and N Isotope Fractionation to Trace Transformation Reactions of Diclofenac in Natural and Engineered Systems. <i>Environmental Science & Technology</i> , 2016, 50, 10933-10942.	4.6	17
79	Indications of Transformation Products from Hydraulic Fracturing Additives in Shale-Gas Wastewater. <i>Environmental Science & Technology</i> , 2016, 50, 8036-8048.	4.6	96
80	Organic Reference Materials for Hydrogen, Carbon, and Nitrogen Stable Isotope-Ratio Measurements: Caffeines, <i>n</i> -Alkanes, Fatty Acid Methyl Esters, Glycines, Valines, Polyethylenes, and Oils. <i>Analytical Chemistry</i> , 2016, 88, 4294-4302.	3.2	126
81	Biodegradation: Updating the Concepts of Control for Microbial Cleanup in Contaminated Aquifers. <i>Environmental Science & Technology</i> , 2015, 49, 7073-7081.	4.6	211
82	Improved constraints on in situ rates and on quantification of complete chloroethene degradation from stable carbon isotope mass balances in groundwater plumes. <i>Journal of Contaminant Hydrology</i> , 2015, 182, 173-182.	1.6	11
83	Pre-drilling background groundwater quality in the Deep River Triassic Basin of central North Carolina, USA. <i>Applied Geochemistry</i> , 2015, 60, 3-13.	1.4	10
84	Protocol to Investigate Volatile Aromatic Hydrocarbon Degradation with Purge and Trap Coupled to a Gas Chromatograph/Isotope Ratio Mass Spectrometer. <i>Springer Protocols</i> , 2015, , 259-288.	0.1	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. <i>Environmental Science & Technology</i> , 2015, 49, 3490-3498.	4.6	26
86	Natural Gas Residual Fluids: Sources, Endpoints, and Organic Chemical Composition after Centralized Waste Treatment in Pennsylvania. <i>Environmental Science & Technology</i> , 2015, 49, 8347-8355.	4.6	74
87	Comment on the German Draft Legislation on Hydraulic Fracturing: The Need for an Accurate State of Knowledge and for Independent Scientific Research. <i>Environmental Science & Technology</i> , 2015, 49, 6367-6369.	4.6	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. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5249-5260.	1.9	26
89	Fate of Four Herbicides in an Irrigated Field Cropped with Corn: Lysimeter Experiments. <i>Procedia Earth and Planetary Science</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13184-13189.	3.3	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. <i>Journal of Hazardous Materials</i> , 2015, 299, 747-754.	6.5	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. <i>Environmental Science & Technology</i> , 2014, 48, 11837-11845.	4.6	71
93	Intrinsic potential for immediate biodegradation of toluene in a pristine, energy-limited aquifer. <i>Biodegradation</i> , 2014, 25, 325-336.	1.5	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. <i>Dalton Transactions</i> , 2014, 43, 12175-12186.	1.6	53
95	C & N Isotope Analysis of Diclofenac to Distinguish Oxidative and Reductive Transformation and to Track Commercial Products. <i>Environmental Science & Technology</i> , 2014, 48, 2312-2320.	4.6	31
96	Small ¹³ C/ ¹² C Fractionation Contrasts with Large Enantiomer Fractionation in Aerobic Biodegradation of Phenoxy Acids. <i>Environmental Science & Technology</i> , 2014, 48, 5501-5511.	4.6	31
97	C and Cl Isotope Fractionation of 1,2-Dichloroethane Displays Unique ¹³ C/ ³⁷ Cl Patterns for Pathway Identification and Reveals Surprising C-Cl Bond Involvement in Microbial Oxidation. <i>Environmental Science & Technology</i> , 2014, 48, 9430-9437.	4.6	53
98	Controls of event-based pesticide leaching in natural soils: A systematic study based on replicated field scale irrigation experiments. <i>Journal of Hydrology</i> , 2014, 512, 528-539.	2.3	32
99	Chlorine Isotope Effects from Isotope Ratio Mass Spectrometry Suggest Intramolecular C-Cl Bond Competition in Trichloroethene (TCE) Reductive Dehalogenation. <i>Molecules</i> , 2014, 19, 6450-6473.	1.7	43
100	Predicting Pesticide Attenuation in a Fractured Aquifer Using Lumped-Parameter Models. <i>Ground Water</i> , 2013, 51, 276-285.	0.7	16
101	Enantioselective stable isotope analysis (ESIA) of polar herbicides. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2825-2831.	1.9	19
102	Compound-specific isotope analysis of benzotriazole and its derivatives. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2843-2856.	1.9	36
103	Carbon and nitrogen isotope analysis of atrazine and desethylatrazine at sub-microgram per liter concentrations in groundwater. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2857-2867.	1.9	52
104	Evaluating Pesticide Degradation in the Environment: Blind Spots and Emerging Opportunities. <i>Science</i> , 2013, 341, 752-758.	6.0	835
105	Delineating spring recharge areas in a fractured sandstone aquifer (Luxembourg) based on pesticide mass balance. <i>Hydrogeology Journal</i> , 2013, 21, 799-812.	0.9	10
106	Combined isotope and enantiomer analysis to assess the fate of phenoxy acids in a heterogeneous geologic setting at an old landfill. <i>Water Research</i> , 2013, 47, 637-649.	5.3	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. <i>Applied Geochemistry</i> , 2013, 32, 175-183.	1.4	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. <i>Environmental Science & Technology</i> , 2013, 47, 6884-6891.	4.6	30

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109	Model Complexity Needed for Quantitative Analysis of High Resolution Isotope and Concentration Data from a Toluene-Pulse Experiment. <i>Environmental Science & Technology</i> , 2013, 47, 6900-6907.	4.6	24
110	Direct Experimental Evidence of Non-first Order Degradation Kinetics and Sorption-Induced Isotopic Fractionation in a Mesoscale Aquifer: $^{13}\text{C}/^{12}\text{C}$ Analysis of a Transient Toluene Pulse. <i>Environmental Science & Technology</i> , 2013, 47, 6892-6899.	4.6	19
111	Reductive Dechlorination of TCE by Chemical Model Systems in Comparison to Dehalogenating Bacteria: Insights from Dual Element Isotope Analysis ($^{13}\text{C}/^{12}\text{C}$, $^{35}\text{Cl}/^{37}\text{Cl}$). <i>Environmental Science & Technology</i> , 2013, 47, 6882-6891.	4.6	19
112	Macropore flow of old water revisited: experimental insights from a tile-drained hillslope. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 103-118.	1.9	112
113	C and N Isotope Fractionation during Biodegradation of the Pesticide Metabolite 2,6-Dichlorobenzamide (BAM): Potential for Environmental Assessments. <i>Environmental Science & Technology</i> , 2012, 46, 1447-1454.	4.6	38
114	Gas chromatography/isotope ratio mass spectrometry of recalcitrant target compounds: performance of different combustion reactors and strategies for standardization. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1053-1060.	0.7	31
115	Current challenges in compound-specific stable isotope analysis of environmental organic contaminants. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2471-2491.	1.9	234
116	Dual (C, H) Isotope Fractionation in Anaerobic Low Molecular Weight (Poly)aromatic Hydrocarbon (PAH) Degradation: Potential for Field Studies and Mechanistic Implications. <i>Environmental Science & Technology</i> , 2011, 45, 6947-6953.	4.6	46
117	Current Perspectives on the Mechanisms of Chlorohydrocarbon Degradation in Subsurface Environments: Insight from Kinetics, Product Formation, Probe Molecules, and Isotope Fractionation. <i>ACS Symposium Series</i> , 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. <i>Analytical Chemistry</i> , 2011, 83, 7624-7634.	3.2	101
119	Carbon Isotope Analysis to Evaluate Nanoscale Fe(O) Treatment at a Chlorohydrocarbon Contaminated Site. <i>Ground Water Monitoring and Remediation</i> , 2010, 30, 79-95.	0.6	21
120	C, N, and H Isotope Fractionation of the Herbicide Isoproturon Reflects Different Microbial Transformation Pathways. <i>Environmental Science & Technology</i> , 2010, 44, 2372-2378.	4.6	56
121	Small and Reproducible Isotope Effects during Methylation with Trimethylsulfonium Hydroxide (TMSH): A Convenient Derivatization Method for Isotope Analysis of Negatively Charged Molecules. <i>Analytical Chemistry</i> , 2010, 82, 2013-2019.	3.2	35
122	Quantitative Site-Specific ^2H NMR Investigation of MTBE: Potential for Assessing Contaminant Sources and Fate. <i>Environmental Science & Technology</i> , 2010, 44, 1062-1068.	4.6	19
123	Stable isotope fractionation to investigate natural transformation mechanisms of organic contaminants: principles, prospects and limitations. <i>Journal of Environmental Monitoring</i> , 2010, 12, 2005.	2.1	303
124	Isotopic Fractionation of Methyl <i>tert</i> -Butyl Ether Suggests Different Initial Reaction Mechanisms during Aerobic Biodegradation. <i>Environmental Science & Technology</i> , 2009, 43, 2793-2799.	4.6	50
125	Modeling Chlorine Isotope Trends during Sequential Transformation of Chlorinated Ethenes. <i>Environmental Science & Technology</i> , 2009, 43, 6750-6756.	4.6	70
126	C and N Isotope Fractionation Suggests Similar Mechanisms of Microbial Atrazine Transformation Despite Involvement of Different Enzymes (AtzA and TrzN). <i>Environmental Science & Technology</i> , 2009, 43, 8079-8085.	4.6	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.	3.2	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.	4.6	96
130	Isotopic Evidence Suggests Different Initial Reaction Mechanisms for Anaerobic Benzene Biodegradation. Environmental Science & Technology, 2008, 42, 8290-8296.	4.6	70
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