

Matthias Gehre

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,101
citations

430442

18
h-index

610482

24
g-index

27
all docs

27
docs citations

27
times ranked

2410
citing authors

#	ARTICLE	IF	CITATIONS
1	New Guidelines for $\delta^{13}\text{C}$ Measurements. <i>Analytical Chemistry</i> , 2006, 78, 2439-2441.	3.2	762
2	On-line $\delta^{18}\text{O}$ measurement of organic and inorganic substances. , 1999, 13, 1685-1693.		202
3	Comprehensive inter-laboratory calibration of reference materials for $\delta^{18}\text{O}$ versus VSMOW using various on-line high-temperature conversion techniques. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 999-1019.	0.7	167
4	Organic Reference Materials for Hydrogen, Carbon, and Nitrogen Stable Isotope-Ratio Measurements: Caffeines, n -Alkanes, Fatty Acid Methyl Esters, Glycines, Valines, Polyethylenes, and Oils. <i>Analytical Chemistry</i> , 2016, 88, 4294-4302.	3.2	126
5	High-temperature elemental analysis and pyrolysis techniques for stable isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1497-1503.	0.7	111
6	Variations in $\delta^{13}\text{C}/\delta^{12}\text{C}$ and D/H Enrichment Factors of Aerobic Bacterial Fuel Oxygenate Degradation. <i>Environmental Science & Technology</i> , 2007, 41, 2036-2043.	4.6	79
7	On-Line Hydrogen-Isotope Measurements of Organic Samples Using Elemental Chromium: An Extension for High Temperature Elemental-Analyzer Techniques. <i>Analytical Chemistry</i> , 2015, 87, 5198-5205.	3.2	77
8	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.	3.2	74
9	Novel silver-tubing method for quantitative introduction of water into high-temperature conversion systems for stable hydrogen and oxygen isotopic measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1821-1827.	0.7	52
10	Compound Specific Stable Chlorine Isotopic Analysis of Volatile Aliphatic Compounds Using Gas Chromatography Hyphenated with Multiple Collector Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 9131-9138.	3.2	50
11	A novel online approach to the determination of isotopic ratios for organically bound chlorine, bromine and sulphur. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 3114-3122.	0.7	44
12	Development and Validation of an Universal Interface for Compound-Specific Stable Isotope Analysis of Chlorine ($^{37}\text{Cl}/^{35}\text{Cl}$) by GC-High-Temperature Conversion (HTC)-MS/IRMS. <i>Analytical Chemistry</i> , 2015, 87, 2832-2839.	3.2	42
13	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.	5.3	42
14	New biotite and muscovite isotopic reference materials, USGS57 and USGS58, for $\delta^2\text{H}$ measurements – A replacement for NBS 30. <i>Chemical Geology</i> , 2017, 467, 89-99.	1.4	41
15	Online isotope analysis of $^{37}\text{Cl}/^{35}\text{Cl}$ universally applied for semi-volatile organic compounds using GC-MC-ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 314-321.	1.6	39
16	Optimization of on-line 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.	0.7	34
17	Isotopic disproportionation during hydrogen isotopic analysis of nitrogen-bearing organic compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 878-884.	0.7	31
18	Standardization for oxygen isotope ratio measurement - still an unsolved problem. , 1999, 13, 1248-1251.		30

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19	Sulfate deprivation triggers high methane production in a disturbed and rewetted coastal peatland. <i>Biogeosciences</i> , 2019, 16, 1937-1953.	1.3	29
20	Compound-specific hydrogen isotope analysis of fluorine-, chlorine-, bromine- and iodine-bearing organics using gas chromatography-cromium-based high-temperature conversion (Cr/HTC) isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1095-1102.	0.7	24
21	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
22	Simultaneous Compound-Specific Analysis of $\delta^{33}\text{S}$ and $\delta^{34}\text{S}$ in Organic Compounds by GC-MC-ICPMS Using Medium- and Low-Mass-Resolution Modes. <i>Analytical Chemistry</i> , 2020, 92, 14685-14692.	3.2	11
23	Multi-element isotopic evidence for monochlorobenzene and benzene degradation under anaerobic conditions in contaminated sediments. <i>Water Research</i> , 2021, 207, 117809.	5.3	9
24	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.	3.2	8
25	Evaluation of the performance of high temperature conversion reactors for compound-specific oxygen stable isotope analysis. <i>Isotopes in Environmental and Health Studies</i> , 2017, 53, 116-133.	0.5	3
26	Organic matter resources fuelling food webs in a human-modified lowland river: importance of habitat and season. <i>Hydrobiologia</i> , 2019, 841, 121-131.	1.0	2