

Willi A Brand

List of Publications by Year in descending order

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54
papers

6,224
citations

172457

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6899
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#	ARTICLE	IF	CITATIONS
1	A trace-gas climatology above Zotino, central Siberia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 54, 749.	1.6	21
2	USGS44, a new high-purity calcium carbonate reference material for ^{13}C measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9006.	1.5	16
3	A robust method for direct calibration of isotope ratios in gases against liquid/solid reference materials, including a laboratory comparison for ^{13}C and ^{14}C . <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8944.	1.5	2
4	Three wood isotopic reference materials for ^2H and ^{13}C measurements of plant methoxy groups. <i>Chemical Geology</i> , 2020, 533, 119428.	3.3	14
5	New Concepts for the Determination of Oxidation Efficiencies in Liquid Chromatography-Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 5067-5073.	6.5	4
6	Spatial Microanalysis of Natural $^{13}\text{C}/^{12}\text{C}$ Abundance in Environmental Samples Using Laser Ablation-Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 6225-6232.	6.5	27
7	Methyl sulfates as methoxy isotopic reference materials for ^{13}C and ^2H measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 343-350.	1.5	11
8	Preliminary assessment of stable nitrogen and oxygen isotopic composition of USGS51 and USGS52 nitrous oxide reference gases and perspectives on calibration needs. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1207-1214.	1.5	21
9	Interlaboratory comparison of ^{13}C and ^2H measurements of atmospheric CH_4 for combined use of data sets from different laboratories. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1207-1221.	3.1	31
10	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.	1.5	34
11	New biotite and muscovite isotopic reference materials, USGS57 and USGS58, for ^2H measurements—A replacement for NBS 30. <i>Chemical Geology</i> , 2017, 467, 89-99.	3.3	41
12	Development and evaluation of a suite of isotope reference gases for methane in air. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3717-3737.	3.1	24
13	A new organic reference material, γ -glutamic acid, USGS41a, for ^{13}C and ^{15}N measurements—a replacement for USGS41. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 859-866.	1.5	54
14	Automated simultaneous measurement of the ^{13}C and ^2H values of methane and the ^{13}C and ^{18}O values of carbon dioxide in flask air samples using a new multi-cryotrap/gas chromatography/isotope ratio mass spectrometry system. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1523-1539.	1.5	14
15	Atomic weights of the elements 2013 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016, 88, 265-291.	1.9	518
16	Reassessment of the NH_4NO_3 thermal decomposition technique for calibration of the N_2O isotopic composition. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2487-2496.	1.5	17
17	Isotopic compositions of the elements 2013 (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016, 88, 293-306.	1.9	534
18	Organic Reference Materials for Hydrogen, Carbon, and Nitrogen Stable Isotope-Ratio Measurements: Caffeines, Alkanes, Fatty Acid Methyl Esters, Glycines, Valines, Polyethylenes, and Oils. <i>Analytical Chemistry</i> , 2016, 88, 4294-4302.	6.5	126

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19	Isotopic disproportionation during hydrogen isotopic analysis of nitrogen-bearing organic compounds. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 878-884.	1.5	31
20	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.	6.5	77
21	Assessment of international reference materials for isotope-ratio analysis (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2014, 86, 425-467.	1.9	491
22	Gas Source Isotope Ratio Mass Spectrometry (IRMS). <i>New Developments in Mass Spectrometry</i> , 2014, , 500-549.	0.2	4
23	Background variations of atmospheric CO ₂ and carbon-stable isotopes at Waliguan and Shangdianzi stations in China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5602-5612.	3.3	31
24	Atomic weights: not so constant after all. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2755-2761.	3.7	10
25	A Common Fungal Associate of the Spruce Bark Beetle Metabolizes the Stilbene Defenses of Norway Spruce. <i>Plant Physiology</i> , 2013, 162, 1324-1336.	4.8	150
26	¹⁸ O anchoring to VPDB: calcite digestion with ¹⁸ O-adjusted orthophosphoric acid. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 851-860.	1.5	30
27	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.	1.5	52
28	Correction for the ¹⁷ O interference in ¹³ C measurements when analyzing CO ₂ with stable isotope mass spectrometry (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2010, 82, 1719-1733.	1.9	268
29	Isotopic composition of H ₂ from wood burning: Dependency on combustion efficiency, moisture content, and ¹³ C of local precipitation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
30	How well do we know VPDB? Variability of ¹³ C and ¹⁸ O in CO ₂ generated from NBS19-calcite. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 915-926.	1.5	47
31	Comprehensive inter-laboratory calibration of reference materials for ¹⁸ O versus VSMOW using various on-line high-temperature conversion techniques. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 999-1019.	1.5	167
32	Cavity ring-down spectroscopy versus high-temperature conversion isotope ratio mass spectrometry; a case study on ² H and ¹⁸ O of pure water samples and alcohol/water mixtures. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1879-1884.	1.5	204
33	Strategies of a parasite of the ant-Acacia mutualism. <i>Behavioral Ecology and Sociobiology</i> , 2008, 62, 953-962.	1.4	60
34	Improved isotope ratio measurement performance in liquid chromatography/isotope ratio mass spectrometry by removing excess oxygen. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 4135-4141.	1.5	31
35	New Guidelines for ¹³ C Measurements. <i>Analytical Chemistry</i> , 2006, 78, 2439-2441.	6.5	762
36	After two decades a second anchor for the VPDB ¹³ C scale. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3165-3166.	1.5	147

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37	Short-term variations in $\delta^{13}\text{C}$ of ecosystem respiration reveals link between assimilation and respiration in a deciduous forest. <i>Oecologia</i> , 2005, 142, 70-82.	2.0	130
38	Calcite- CO_2 mixed into CO_2 -free air: a new CO_2 -in-air stable isotope reference material for the VPDB scale. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1097-1119.	1.5	63
39	Laser ablation-combustion-GC-IRMS—a new method for online analysis of intra-annual variation of $\delta^{13}\text{C}$ in tree rings. <i>Tree Physiology</i> , 2004, 24, 1193-1201.	3.1	81
40	Eine mögliche präbiotische Bildung von Ammoniak aus molekularem Stickstoff auf Eisensulfidoberflächen. <i>Angewandte Chemie</i> , 2003, 115, 1579-1581.	2.0	15
41	A Possible Prebiotic Formation of Ammonia from Dinitrogen on Iron Sulfide Surfaces. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1540-1543.	13.8	121
42	Stable isotope ratio mass spectrometry in global climate change research. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 1-33.	1.5	108
43	Two new organic reference materials for $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ measurements and a new value for the $\delta^{13}\text{C}$ of NBS 22 oil. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2483-2487.	1.5	190
44	Isotopic metrology of carbon dioxide. II. Effects of ion source materials, conductance, emission, and accelerating voltage on dual-inlet cross contamination. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 777-782.	1.5	27
45	Soil and canopy CO_2 , $^{13}\text{CO}_2$, H_2O and sensible heat flux partitions in a forest canopy inferred from concentration measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 655-676.	1.6	4
46	A trace-gas climatology above Zotino, central Siberia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 749-767.	1.6	28
47	Soil and canopy CO_2 , $^{13}\text{CO}_2$, H_2O and sensible heat flux partitions in a forest canopy inferred from concentration measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 655-676.	1.6	25
48	Referencing strategies and techniques in stable isotope ratio analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 501-519.	1.5	802
49	Extraction of CO_2 from air samples for isotopic analysis and limits to ultra high precision $\delta^{18}\text{O}$ determination in CO_2 gas. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 2152-2167.	1.5	54
50	Isotope Ratio Studies Using Mass Spectrometry. , 1999, , 1072-1086.		4
51	A laser extraction/combustion technique for in situ $\delta^{13}\text{C}$ analysis of organic and inorganic materials. , 1999, 13, 1218-1225.		21
52	ConFlo III - an interface for high precision $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ analysis with an extended dynamic range. , 1999, 13, 1237-1241.		207
53	Isotope Ratio Studies Using Mass Spectrometry*. , 1999, , 1224-1236.		0
54	High Precision Isotope Ratio Monitoring Techniques in Mass Spectrometry. , 1996, 31, 225-235.		251