Willi A Brand

List of Publications by Year
in descending order

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54 papers	6,224 citations	172457 29 h-index	197818 49 g-index
54 all docs	54 docs citations	54 times ranked	6899 citing authors

#	Article	IF	Citations
1	Referencing strategies and techniques in stable isotope ratio analysis. Rapid Communications in Mass Spectrometry, 2001, 15, 501-519.	1.5	802
2	New Guidelines forÎ´13C Measurements. Analytical Chemistry, 2006, 78, 2439-2441.	6.5	762
3	Isotopic compositions of the elements 2013 (IUPAC Technical Report). Pure and Applied Chemistry, 2016, 88, 293-306.	1.9	534
4	Atomic weights of the elements 2013 (IUPAC Technical Report). Pure and Applied Chemistry, 2016, 88, 265-291.	1.9	518
5	Assessment of international reference materials for isotope-ratio analysis (IUPAC Technical Report). Pure and Applied Chemistry, 2014, 86, 425-467.	1.9	491
6	Correction for the 17O interference in Î´(13C) measurements when analyzing CO2 with stable isotope mass spectrometry (IUPAC Technical Report). Pure and Applied Chemistry, 2010, 82, 1719-1733.	1.9	268
7	High Precision Isotope Ratio Monitoring Techniques in Mass Spectrometry. , 1996, 31, 225-235.		251
8	ConFlo III - an interface for high precision Î´13C and Î´15N analysis with an extended dynamic range. , 1999, 13, 1237-1241.		207
9	Cavity ringâ€down spectroscopy versus highâ€temperature conversion isotope ratio mass spectrometry; a case study on Î´²H and Î´¹⁸O of pure water samples and alcohol/water mixtures. Rapid Communications in Mass Spectrometry, 2009, 23, 1879-1884.	1.5	204
10	Two new organic reference materials forÎ´13C andÎ´15N measurements and a new value for theÎ´13C of NBS 22 oil. Rapid Communications in Mass Spectrometry, 2003, 17, 2483-2487.	1.5	190
11	Comprehensive interâ€laboratory calibration of reference materials for Î´¹⁸O versus VSMOW using various onâ€line highâ€temperature conversion techniques. Rapid Communications in Mass Spectrometry, 2009, 23, 999-1019.	1.5	167
12	A Common Fungal Associate of the Spruce Bark Beetle Metabolizes the Stilbene Defenses of Norway Spruce Â Â Â. Plant Physiology, 2013, 162, 1324-1336.	4.8	150
13	After two decades a second anchor for the VPDBÎ´13C scale. Rapid Communications in Mass Spectrometry, 2006, 20, 3165-3166.	1.5	147
14	Short-term variations in ?13C of ecosystem respiration reveals link between assimilation and respiration in a deciduous forest. Oecologia, 2005, 142, 70-82.	2.0	130
15	Organic Reference Materials for Hydrogen, Carbon, and Nitrogen Stable Isotope-Ratio Measurements: Caffeines, n-Alkanes, Fatty Acid Methyl Esters, Glycines, <scp>L</scp>-Valines, Polyethylenes, and Oils. Analytical Chemistry, 2016, 88, 4294-4302.	6.5	126
16	A Possible Prebiotic Formation of Ammonia from Dinitrogen on Iron Sulfide Surfaces. Angewandte Chemie - International Edition, 2003, 42, 1540-1543.	13.8	121
17	Stable isotope ratio mass spectrometry in global climate change research. International Journal of Mass Spectrometry, 2003, 228, 1-33.	1.5	108
18	Laser ablation-combustion-GC-IRMS–a new method for online analysis of intra-annual variation of Â13C in tree rings. Tree Physiology, 2004, 24, 1193-1201.	3.1	81

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19	On-Line Hydrogen-Isotope Measurements of Organic Samples Using Elemental Chromium: An Extension for High Temperature Elemental-Analyzer Techniques. Analytical Chemistry, 2015, 87, 5198-5205.	6.5	77
20	Calcite-CO2 mixed into CO2-free air: a new CO2-in-air stable isotope reference material for the VPDB scale. Rapid Communications in Mass Spectrometry, 2005, 19, 1097-1119.	1.5	63
21	Strategies of a parasite of the antâ€“Acacia mutualism. Behavioral Ecology and Sociobiology, 2008, 62, 953-962.	1.4	60
22	Extraction of CO2 from air samples for isotopic analysis and limits to ultra high precision ?18O determination in CO2 gas. Rapid Communications in Mass Spectrometry, 2001, 15, 2152-2167.	1.5	54
23	A new organic reference material, <scp>l</scp>â€glutamic acid, USGS41a, for Î´¹³C and Î´¹⁵N measurements â˜ a replacement for USGS41. Rapid Communications in Mass Spectrometry, 2016, 30, 859-866.	1.5	54
24	Novel silverâ€tubing method for quantitative introduction of water into highâ€temperature conversion systems for stable hydrogen and oxygen isotopic measurements. Rapid Communications in Mass Spectrometry, 2010, 24, 1821-1827.	1.5	52
25	How well do we know VPDB? Variability of Î´¹³C and Î´¹⁸O in CO₂ generated from NBS19â€calcite. Rapid Communications in Mass Spectrometry, 2009, 23, 915-926.	1.5	47
26	New biotite and muscovite isotopic reference materials, USGS57 and USGS58, for Î´2H measurementsâ€“A replacement for NBS 30. Chemical Geology, 2017, 467, 89-99.	3.3	41
27	Optimization of onâ€line hydrogen stable isotope ratio measurements of halogenâ€and sulfurâ€bearing organic compounds using elemental analyzerâ€“chromium/highâ€temperature conversion isotope ratio mass spectrometry (EAâ€Cr/HTCâ€IRMS). Rapid Communications in Mass Spectrometry, 2017, 31, 475-484.	1.5	34
28	Improved isotope ratio measurement performance in liquid chromatography/isotope ratio mass spectrometry by removing excess oxygen. Rapid Communications in Mass Spectrometry, 2007, 21, 4135-4141.	1.5	31
29	Background variations of atmospheric CO₂ and carbonâ€stable isotopes at Waliguan and Shangdianzi stations in China. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5602-5612.	3.3	31
30	Isotopic disproportionation during hydrogen isotopic analysis of nitrogenâ€bearing organic compounds. Rapid Communications in Mass Spectrometry, 2015, 29, 878-884.	1.5	31
31	Interlaboratory comparison of <i>Î´</i>¹³C and <i>Î´</i>D measurements of atmospheric CH₄ for combined use of data sets from different laboratories. Atmospheric Measurement Techniques, 2018, 11, 1207-1231.	3.1	31
32	Î´¹⁸O anchoring to VPDB: calcite digestion with ¹⁸Oâ€adjusted orthoâ€phosphoric acid. Rapid Communications in Mass Spectrometry, 2011, 25, 851-860.	1.5	30
33	A trace-gas climatology above Zotino, central Siberia. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 749-767.	1.6	28
34	Isotopic metrology of carbon dioxide. II. Effects of ion source materials, conductance, emission, and accelerating voltage on dual-inlet cross contamination. Rapid Communications in Mass Spectrometry, 2003, 17, 777-782.	1.5	27
35	Spatial Microanalysis of Natural ¹³C/¹²C Abundance in Environmental Samples Using Laser Ablation-Isotope Ratio Mass Spectrometry. Analytical Chemistry, 2019, 91, 6225-6232.	6.5	27
36	Soil and canopy CO2, 13CO2, H2O and sensible heat flux partitions in a forest canopy inferred from concentration measurements. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 655-676.	1.6	25

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37	Development and evaluation of a suite of isotope reference gases for methane in air. Atmospheric Measurement Techniques, 2016, 9, 3717-3737.	3.1	24
38	Isotopic composition of H₂ from wood burning: Dependency on combustion efficiency, moisture content, and Î´D of local precipitation. Journal of Geophysical Research, 2010, 115, .	3.3	22
39	A laser extraction/combustion technique for in situ Î´13C analysis of organic and inorganic materials. , 1999, 13, 1218-1225.		21
40	A trace-gas climatology above Zotino, central Siberia. Tellus, Series B: Chemical and Physical Meteorology, 2022, 54, 749.	1.6	21
41	Preliminary assessment of stable nitrogen and oxygen isotopic composition of USGS51 and USGS52 nitrous oxide reference gases and perspectives on calibration needs. Rapid Communications in Mass Spectrometry, 2018, 32, 1207-1214.	1.5	21
42	Reassessment of the NH₄NO₃ thermal decomposition technique for calibration of the N₂O isotopic composition. Rapid Communications in Mass Spectrometry, 2016, 30, 2487-2496.	1.5	17
43	USGS44, a new highâ€purity calcium carbonate reference material for Î´¹³C measurements. Rapid Communications in Mass Spectrometry, 2021, 35, e9006.	1.5	16
44	Eine mÃ¶gliche prÃbiotische Bildung von Ammoniak aus molekularem Stickstoff auf EisensulfidoberflÃchen. Angewandte Chemie, 2003, 115, 1579-1581.	2.0	15
45	Automated simultaneous measurement of the Î´¹³C and Î´²H values of methane and the Î´¹³C and Î´¹⁸O values of carbon dioxide in flask air samples using a new multi cryoâ€trap/gas chromatography/isotope ratio mass spectrometry system. Rapid Communications in Mass Spectrometry, 2016, 30, 1523-1539.	1.5	14
46	Three wood isotopic reference materials for Î´2H and Î´13C measurements of plant methoxy groups. Chemical Geology, 2020, 533, 119428.	3.3	14
47	Methyl sulfates as methoxy isotopic reference materials for Î´¹³C and Î´²H measurements. Rapid Communications in Mass Spectrometry, 2019, 33, 343-350.	1.5	11
48	Atomic weights: not so constant after all. Analytical and Bioanalytical Chemistry, 2013, 405, 2755-2761.	3.7	10
49	Isotope Ratio Studies Using Mass Spectrometry. , 1999, , 1072-1086.		4
50	Soil and canopy CO2, 13CO2, H2O and sensible heat flux partitions in a forest canopy inferred from concentration measurements. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 655-676.	1.6	4
51	Gas Source Isotope Ratio Mass Spectrometry (IRMS). New Developments in Mass Spectrometry, 2014, , 500-549.	0.2	4
52	New Concepts for the Determination of Oxidation Efficiencies in Liquid Chromatographyâ€“Isotope Ratio Mass Spectrometry. Analytical Chemistry, 2019, 91, 5067-5073.	6.5	4
53	A robust method for direct calibration of isotope ratios in gases against liquid/solid reference materials, including a laboratory comparison for Î´¹³Câ€CH₄. Rapid Communications in Mass Spectrometry, 2021, 35, e8944.	1.5	2
54	Isotope Ratio Studies Using Mass Spectrometry*. , 1999, , 1224-1236.		0