

Wolfram Meier-Augenstein

List of Publications by Year in descending order

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96
papers

3,046
citations

159585

30
h-index

175258

52
g-index

113
all docs

113
docs citations

113
times ranked

2934
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Ajnala skeletal remains using multiple forensic anthropological methods and techniques: A bioarchaeological report. <i>Journal of Archaeological Science: Reports</i> , 2020, 32, 102434.	0.5	1
2	Forensic stable isotope signatures: Comparing, geo-locating, detecting linkage. <i>Wiley Interdisciplinary Reviews Forensic Science</i> , 2019, 1, .	2.1	12
3	Spatial variability of ² H and ¹⁸ O composition of meteoric freshwater lakes in Scotland. <i>Isotopes in Environmental and Health Studies</i> , 2019, 55, 237-253.	1.0	4
4	From stable isotope ecology to forensic isotope ecology – Isotopes™ tales. <i>Forensic Science International</i> , 2019, 300, 89-98.	2.2	8
5	A guide for proper utilisation of stable isotope reference materials. <i>Isotopes in Environmental and Health Studies</i> , 2019, 55, 113-128.	1.0	52
6	Combining stable isotopes with contamination indicators: A method for improved investigation of nitrate sources and dynamics in aquifers with mixed nitrogen inputs. <i>Water Research</i> , 2017, 124, 85-96.	11.3	112
7	Organic Reference Materials for Hydrogen, Carbon, and Nitrogen Stable Isotope-Ratio Measurements: Caffeines, <i>n</i> -Alkanes, Fatty Acid Methyl Esters, Glycines, <i>l</i> -Valines, Polyethylenes, and Oils. <i>Analytical Chemistry</i> , 2016, 88, 4294-4302.	6.5	126
8	Discrimination of unprocessed cotton on the basis of geographic origin using multi-element stable isotope signatures. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 545-552.	1.5	18
9	Ignoring IUPAC guidelines for measurement and reporting of stable isotope abundance values affects us all. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1953-1955.	1.5	43
10	Influence of precursor solvent extraction on stable isotope signatures of methylamphetamine prepared from over-the-counter medicines using the Moscow and Hypophosphorous routes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2931-2941.	3.7	8
11	Nutrient acquisition in four Mediterranean gorgonian species. <i>Marine Ecology - Progress Series</i> , 2013, 473, 179-188.	1.9	35
12	Critique: measuring hydrogen stable isotope abundance of proteins to infer origins of wildlife, food and people. <i>Bioanalysis</i> , 2013, 5, 751-767.	1.5	68
13	Evaluating the utility of ¹⁵ N and ¹⁸ O isotope abundance analyses to identify nitrate sources: A soil zone study. <i>Water Research</i> , 2012, 46, 3723-3736.	11.3	38
14	Using Isotopic Fractionation to Link Precursor to Product in the Synthesis of (±)-Mephedrone: A New Tool for Combating “Legal High” Drugs. <i>Analytical Chemistry</i> , 2012, 84, 8691-8696.	6.5	12
15	Dietary Differentiation and the Evolution of Population Genetic Structure in a Highly Mobile Carnivore. <i>PLoS ONE</i> , 2012, 7, e39341.	2.5	40
16	Detection of counterfeit scotch whisky by ² H and ¹⁸ O stable isotope analysis. <i>Food Chemistry</i> , 2012, 133, 1070-1074.	8.2	31
17	Organic impurities, stable isotopes, or both: A comparison of instrumental and pattern recognition techniques for the profiling of 3,4-methylenedioxyamphetamine. <i>Analytical Methods</i> , 2011, 3, 2279.	2.7	19
18	Simplifying and improving the extraction of nitrate from freshwater for stable isotope analyses. <i>Journal of Environmental Monitoring</i> , 2011, 13, 2062.	2.1	7

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19	A counter-intuitive approach to calculating non-exchangeable ^2H isotopic composition of hair: treating the molar exchange fraction f_E as a process-related rather than compound-specific variable. Rapid Communications in Mass Spectrometry, 2011, 25, 301-306.	1.5	16
20	Inter-laboratory calibration of new silver orthophosphate comparison materials for the stable oxygen isotope analysis of phosphates. Rapid Communications in Mass Spectrometry, 2011, 25, 579-584.	1.5	60
21	^2H stable isotope analysis of human tooth enamel: a new tool for forensic human provenancing?. Rapid Communications in Mass Spectrometry, 2011, 25, 910-916.	1.5	18
22	Investigating the provenance of undyed spun cotton fibre using multi-isotope profiles and chemometric analysis. Rapid Communications in Mass Spectrometry, 2011, 25, 1812-1816.	1.5	15
23	An inter-laboratory comparative study into sample preparation for both reproducible and repeatable forensic ^2H isotope analysis of human hair by continuous flow isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 3331-3338.	1.5	42
24	THE USE OF OXYGEN ISOTOPES IN SHEEP MOLARS TO INVESTIGATE PAST HERDING PRACTICES AT THE NEOLITHIC SETTLEMENT OF AATALHA-YEK, CENTRAL ANATOLIA. Archaeometry, 2010, 52, 429-449.	1.3	49
25	Does light exposure make plant litter more degradable?. Plant and Soil, 2010, 333, 275-285.	3.7	74
26	The hydrological response of heavy clay grassland soils to rainfall in south-west England using ^2H . Rapid Communications in Mass Spectrometry, 2010, 24, 475-482.	1.5	14
27	Measurement at the field scale of soil ^{13}C and ^{15}N under improved grassland. Rapid Communications in Mass Spectrometry, 2010, 24, 511-518.	1.5	17
28	What contribution do detergent fatty alcohols make to sewage discharges and the marine environment?. Journal of Environmental Monitoring, 2010, 12, 1846.	2.1	17
29	Stable isotope analysis of white paints and likelihood ratios. Science and Justice - Journal of the Forensic Science Society, 2009, 49, 114-119.	2.1	30
30	N_2 : a potential pitfall for bulk ^2H isotope analysis of explosives and other nitrogen-rich compounds by continuous-flow isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 2011-2016.	1.5	33
31	Isotopic evidence for the provenance and turnover of organic carbon by soil microorganisms in the Antarctic dry valleys. Environmental Microbiology, 2009, 11, 597-608.	3.8	61
32	Stable isotope profiling of burnt wooden safety matches. Science and Justice - Journal of the Forensic Science Society, 2009, 49, 107-113.	2.1	18
33	Spatial Thinking in Search Methodology: A Case Study of the "No Body Murder Enquiry"™, West of Ireland. , 2009, , 285-302.		8
34	Forensic isotope analysis leads to identification of a mutilated murder victim. Science and Justice - Journal of the Forensic Science Society, 2008, 48, 153-159.	2.1	126
35	Feasibility of source identification of seized street drug samples by exploiting differences in isotopic composition at natural abundance level by GC/MS as compared to isotope ratio mass spectrometry (IRMS). Forensic Science International, 2008, 174, 259-261.	2.2	16
36	Investigation of isotopic linkage between precursor and product in the synthesis of a high explosive. Forensic Science International, 2008, 179, 157-162.	2.2	54

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37	Stable Isotope Analysis of Human Hair and Nail Samples: The Effects of Storage on Samples. <i>Journal of Forensic Sciences</i> , 2008, 53, 95-99.	1.6	25
38	Emerging Use of Isotope Ratio Mass Spectrometry as a Tool for Discrimination of 3,4-Methylenedioxymethamphetamine by Synthetic Route. <i>Analytical Chemistry</i> , 2008, 80, 3350-3356.	6.5	50
39	Stable isotope and DNA evidence for ritual sequences in Inca child sacrifice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16456-16461.	7.1	138
40	Stable ² H isotope analysis of modern-day human hair and nails can aid forensic human identification. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3279-3285.	1.5	67
41	Stable hydrogen isotope ratios of lignin methoxyl groups as a paleoclimate proxy and constraint of the geographical origin of wood. <i>New Phytologist</i> , 2007, 176, 600-609.	7.3	91
42	Forensic analysis of wooden safety matches – A case study. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2007, 47, 88-98.	2.1	20
43	The role of stable isotopes in human identification: a longitudinal study into the variability of isotopic signals in human hair and nails. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1109-1116.	1.5	130
44	Stable Isotope Fingerprinting – Chemical Element – DNA. , 2006, , 29-53.		1
45	¹³ C-Isotope ratio mass spectrometry as a potential tool for the forensic analysis of white architectural paint: a preliminary study. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1899-1905.	1.5	23
46	Stable isotope analysis of safety matches using isotope ratio mass spectrometry-a forensic case study. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3182-3186.	1.5	32
47	Laboratory Set-Up for GC-MS and Continuous-Flow IRMS. , 2004, , 1038-1042.		3
48	GC and IRMS Technology for ¹³ C and ¹⁵ N Analysis on Organic Compounds and Related Gases. , 2004, , 153-176.		21
49	Can hypnosis be used to induce nausea and is this associated with delayed gastric emptying?. <i>Gastroenterology</i> , 2003, 124, A674.	1.3	0
50	Creatine supplementation has no effect on human muscle protein turnover at rest in the postabsorptive or fed states. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 284, E764-E770.	3.5	47
51	Forensic Applications of Isotope Ratio Mass Spectrometry. , 2003, , .		6
52	Sequential extracts of human bone show differing collagen synthetic rates. <i>Biochemical Society Transactions</i> , 2002, 30, 61-65.	3.4	45
53	Stable isotope analysis of fatty acids by gas chromatography – isotope ratio mass spectrometry. <i>Analytica Chimica Acta</i> , 2002, 465, 63-79.	5.4	105
54	Applied gas chromatography coupled to isotope ratio mass spectrometry. <i>Journal of Chromatography A</i> , 1999, 842, 351-371.	3.7	385

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55	Use of gas chromatography-combustion-isotope ratio mass spectrometry in nutrition and metabolic research. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 1999, 2, 465-470.	2.5	44
56	A reference gas inlet module for internal isotopic calibration in high precision gas chromatography/combustion-isotope ratio mass spectrometry. , 1997, 11, 1775-1780.		25
57	Use of continuous-flow combustion MS in studies of human metabolism. <i>Biochemical Society Transactions</i> , 1996, 24, 927-932.	3.4	21
58	Influence of gas chromatographic parameters on measurement of ¹³ C/ ¹² C isotope ratios by gas-liquid chromatography-combustion isotope ratio mass spectrometry. I. <i>Journal of Chromatography A</i> , 1996, 752, 233-241.	3.7	51
59	On-line recording of ¹³ C/ ¹² C ratios and mass spectra in one gas chromatographic analysis. <i>Journal of High Resolution Chromatography</i> , 1995, 18, 28-32.	1.4	28
60	Determination of ¹³ C Enrichment by Conventional GC-MS and GC-(MS)-C-IRMS. <i>Isotopes in Environmental and Health Studies</i> , 1995, 31, 261-266.	1.0	10
61	Bridging the information gap between isotope ratio mass spectrometry and conventional mass spectrometry. <i>Biological Mass Spectrometry</i> , 1994, 23, 376-378.	0.5	27
62	Evaluation of Water Removal and Memory Effect in ¹³ CO ₂ Breath Tests by Isotope Ratio Mass Spectrometry. <i>Isotopes in Environmental and Health Studies</i> , 1994, 30, 349-358.	0.2	1
63	Use of a thick-film capillary column for the analysis of organic acids in body fluids. <i>Biomedical Applications</i> , 1993, 615, 127-135.	1.7	13
64	Physiology and pathophysiology of organic acids in cerebrospinal fluid. <i>Journal of Inherited Metabolic Disease</i> , 1993, 16, 648-669.	3.6	168
65	Conformational Analyses of Alkylated β -Cyclodextrins by NMR Spectroscopy. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1992, 47, 877-886.	0.7	17
66	NMR spectroscopic properties of heptakis(2,6-di-O-pentyl)- β -cyclodextrin: Two-dimensional NMR spectra of a key intermediate in preparing chiral stationary phases for enantioselective capillary gas chromatography. <i>Magnetic Resonance in Chemistry</i> , 1991, 29, 681-686.	1.9	5
67	Analytical and preparative high-performance liquid chromatographic systems for the separation of an anomeric mixture of 4-O-(d-glucopyranosyl)gallic acid. <i>Journal of Chromatography A</i> , 1990, 518, 254-257.	3.7	3
68	The Structure-Activity Relationship of the Turgorin PLMF 1 in the Sensitive Plant <i>Mimosa pudica</i> L.: In Vitro Binding of [¹⁴ C-Carboxyl]-PLMF 1 to Plasma Membrane Fractions from <i>Mimosa</i> Leaves and Bioassays with PLMF I-Isomeric Compounds. <i>Journal of Plant Physiology</i> , 1990, 136, 225-230.	3.5	18
69	Mass Spectrometry versus Isotope Ratio Mass Spectrometry. , 0, , 65-71.		0
70	Isotopic Calibration and Quality Control in Continuous Flow Isotope Ratio Mass Spectrometry. , 0, , 85-90.		1
71	Statistical Analysis of Stable Isotope Data within a Forensic Context. , 0, , 91-99.		0
72	Forensic Stable Isotope Analytical Procedures. , 0, , 100-101.		0

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73	Generic Considerations for Stable Isotope Analysis. , 0 , 102-120.		0
74	Summary of Part II. , 0 , 121-121.		0
75	Appendix II.A: How to Set up a Laboratory for Continuous Flow Isotope Ratio Mass Spectrometry. , 0 , 123-135.		0
76	References Part II. , 0 , 136-142.		0
77	Forensic Context. , 0 , 143-148.		1
78	Distinguishing Drugs. , 0 , 149-168.		0
79	Elucidating Explosives. , 0 , 169-183.		0
80	Matching Matchsticks. , 0 , 184-189.		0
81	Provenancing People. , 0 , 190-213.		2
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84	Government Agencies and Institutes with Dedicated Stable Isotope Laboratories. , 0 , 253-254.		0
85	Author's Biography. , 0 , 261-261.		0
86	What are Stable Isotopes?. , 0 , 1-4.		1
87	Natural Abundance Variation of Stable Isotopes. , 0 , 5-7.		0
88	Stable Isotopic Distribution and Isotopic Fractionation of Light Elements in Nature. , 0 , 16-35.		1
89	Set Problems. , 0 , 122-122.		0
90	Appendix III.A:â€˜Play True?â€™: Stable Isotopes in Anti-doping Control orQuis custodiet ipsos custodes?. , 0 , 224-235.		0

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91	Chemically Identical and Yet Not the Same. , 0, , 8-9.		0
92	Isotope Effects, Mass Discrimination and Isotopic Fractionation. , 0, , 10-15.		1
93	Set Problems. , 0, , 50-50.		0
94	Instrumentation and δ Notation. , 0, , 72-84.		0
95	Stable Isotope Forensics in Everyday Life. , 0, , 36-48.		0
96	Summary of Part I. , 0, , 49-49.		0