

# 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	Applied gas chromatography coupled to isotope ratio mass spectrometry. <i>Journal of Chromatography A</i> , 1999, 842, 351-371.	3.7	385
2	Physiology and pathophysiology of organic acids in cerebrospinal fluid. <i>Journal of Inherited Metabolic Disease</i> , 1993, 16, 648-669.	3.6	168
3	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
4	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
5	Forensic isotope analysis leads to identification of a mutilated murder victim. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2008, 48, 153-159.	2.1	126
6	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
7	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
8	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
9	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
10	Does light exposure make plant litter more degradable?. <i>Plant and Soil</i> , 2010, 333, 275-285.	3.7	74
11	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
12	Stable <sup>2</sup> 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
13	Isotopic evidence for the provenance and turnover of organic carbon by soil microorganisms in the Antarctic dry valleys. <i>Environmental Microbiology</i> , 2009, 11, 597-608.	3.8	61
14	Interlaboratory calibration of new silver orthophosphate comparison materials for the stable oxygen isotope analysis of phosphates. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 579-584.	1.5	60
15	Investigation of isotopic linkage between precursor and product in the synthesis of a high explosive. <i>Forensic Science International</i> , 2008, 179, 157-162.	2.2	54
16	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
17	Influence of gas chromatographic parameters on measurement of <sup>13</sup> C/ <sup>12</sup> 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
18	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

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19	THE USE OF OXYGEN ISOTOPES IN SHEEP MOLARS TO INVESTIGATE PAST HERDING PRACTICES AT THE NEOLITHIC SETTLEMENT OF AATALHAYK, CENTRAL ANATOLIA. <i>Archaeometry</i> , 2010, 52, 429-449.	1.3	49
20	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
21	Sequential extracts of human bone show differing collagen synthetic rates. <i>Biochemical Society Transactions</i> , 2002, 30, 61-65.	3.4	45
22	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
23	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
24	An interlaboratory comparative study into sample preparation for both reproducible and repeatable forensic <sup>2</sup> H isotope analysis of human hair by continuous flow isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 3331-3338.	1.5	42
25	Dietary Differentiation and the Evolution of Population Genetic Structure in a Highly Mobile Carnivore. <i>PLoS ONE</i> , 2012, 7, e39341.	2.5	40
26	Evaluating the utility of <sup>15</sup> N and <sup>18</sup> O isotope abundance analyses to identify nitrate sources: A soil zone study. <i>Water Research</i> , 2012, 46, 3723-3736.	11.3	38
27	Nutrient acquisition in four Mediterranean gorgonian species. <i>Marine Ecology - Progress Series</i> , 2013, 473, 179-188.	1.9	35
28	N <sub>2</sub> : a potential pitfall for bulk <sup>2</sup> H isotope analysis of explosives and other nitrogen-rich compounds by continuous flow isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2011-2016.	1.5	33
29	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
30	Detection of counterfeit scotch whisky by <sup>2</sup> H and <sup>18</sup> O stable isotope analysis. <i>Food Chemistry</i> , 2012, 133, 1070-1074.	8.2	31
31	Stable isotope analysis of white paints and likelihood ratios. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2009, 49, 114-119.	2.1	30
32	On-line recording of <sup>13</sup> C/ <sup>12</sup> C ratios and mass spectra in one gas chromatographic analysis. <i>Journal of High Resolution Chromatography</i> , 1995, 18, 28-32.	1.4	28
33	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
34	A reference gas inlet module for internal isotopic calibration in high precision gas chromatography/combustion-isotope ratio mass spectrometry. , 1997, 11, 1775-1780.		25
35	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
36	<sup>13</sup> 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

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37	Use of continuous-flow combustion MS in studies of human metabolism. <i>Biochemical Society Transactions</i> , 1996, 24, 927-932.	3.4	21
38	GC and IRMS Technology for <sup>13</sup> C and <sup>15</sup> N Analysis on Organic Compounds and Related Gases. , 2004, , 153-176.		21
39	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
40	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
41	The Structure-Activity Relationship of the Turgorin PLMF 1 in the Sensitive Plant <i>Mimosa pudica</i> L.: In Vitro Binding of [ <sup>14</sup> 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
42	Stable isotope profiling of burnt wooden safety matches. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2009, 49, 107-113.	2.1	18
43	<sup>2</sup> H stable isotope analysis of human tooth enamel: a new tool for forensic human provenancing?. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 910-916.	1.5	18
44	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
45	Conformational Analyses of Alkylated <sup>12</sup> -Cyclodextrins by NMR Spectroscopy. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1992, 47, 877-886.	0.7	17
46	Measurement at the field scale of soil <sup>13</sup> C and <sup>15</sup> N under improved grassland. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 511-518.	1.5	17
47	What contribution do detergent fatty alcohols make to sewage discharges and the marine environment?. <i>Journal of Environmental Monitoring</i> , 2010, 12, 1846.	2.1	17
48	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). <i>Forensic Science International</i> , 2008, 174, 259-261.	2.2	16
49	A counter-intuitive approach to calculating non-exchangeable <sup>2</sup> H isotopic composition of hair: treating the molar exchange fraction fE as a process-related rather than compound-specific variable. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 301-306.	1.5	16
50	Investigating the provenance of undyed spun cotton fibre using multi-isotope profiles and chemometric analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1812-1816.	1.5	15
51	The hydrological response of heavy clay grassland soils to rainfall in south-west England using <sup>2</sup> H. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 475-482.	1.5	14
52	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
53	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
54	Forensic stable isotope signatures: Comparing, geo-locating, detecting linkage. <i>Wiley Interdisciplinary Reviews Forensic Science</i> , 2019, 1, .	2.1	12

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55	Determination of <sup>13</sup> 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
56	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
57	From stable isotope ecology to forensic isotope ecology – Isotopes™ tales. <i>Forensic Science International</i> , 2019, 300, 89-98.	2.2	8
58	Spatial Thinking in Search Methodology: A Case Study of the “No Body Murder Enquiry”™, West of Ireland. , 2009, , 285-302.		8
59	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
60	Forensic Applications of Isotope Ratio Mass Spectrometry. , 2003, , .		6
61	NMR spectroscopic properties of heptakis(2,6-di-O-pentyl)- $\beta$ -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
62	Spatial variability of <sup>2</sup> H and <sup>18</sup> O composition of meteoric freshwater lakes in Scotland. <i>Isotopes in Environmental and Health Studies</i> , 2019, 55, 237-253.	1.0	4
63	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
64	Laboratory Set-Up for GC-MS and Continuous-Flow IRMS. , 2004, , 1038-1042.		3
65	Provenancing People. , 0, , 190-213.		2
66	Evaluation of Water Removal and Memory Effect in <sup>13</sup> CO <sub>2</sub> Breath Tests by Isotope Ratio Mass Spectrometry. <i>Isotopes in Environmental and Health Studies</i> , 1994, 30, 349-358.	0.2	1
67	Isotopic Calibration and Quality Control in Continuous Flow Isotope Ratio Mass Spectrometry. , 0, , 85-90.		1
68	Forensic Context. , 0, , 143-148.		1
69	What are Stable Isotopes?. , 0, , 1-4.		1
70	Stable Isotopic Distribution and Isotopic Fractionation of Light Elements in Nature. , 0, , 16-35.		1
71	Isotope Effects, Mass Discrimination and Isotopic Fractionation. , 0, , 10-15.		1
72	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

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73	Stable Isotope Fingerprinting of Chemical Element DNA? , 2006, , 29-53.		1
74	Can hypnosis be used to induce nausea and is this associated with delayed gastric emptying?. Gastroenterology, 2003, 124, A674.	1.3	0
75	Mass Spectrometry versus Isotope Ratio Mass Spectrometry. , 0, , 65-71.		0
76	Statistical Analysis of Stable Isotope Data within a Forensic Context. , 0, , 91-99.		0
77	Forensic Stable Isotope Analytical Procedures. , 0, , 100-101.		0
78	Generic Considerations for Stable Isotope Analysis. , 0, , 102-120.		0
79	Summary of Part II. , 0, , 121-121.		0
80	Appendix II.A: How to Set up a Laboratory for Continuous Flow Isotope Ratio Mass Spectrometry. , 0, , 123-135.		0
81	References Part II. , 0, , 136-142.		0
82	Distinguishing Drugs. , 0, , 149-168.		0
83	Elucidating Explosives. , 0, , 169-183.		0
84	Matching Matchsticks. , 0, , 184-189.		0
85	Stable Isotope Forensics of Other Physical Evidence. , 0, , 214-221.		0
86	Appendix III.B: Sample Preparation Procedures. , 0, , 236-241.		0
87	Government Agencies and Institutes with Dedicated Stable Isotope Laboratories. , 0, , 253-254.		0
88	Author's Biography. , 0, , 261-261.		0
89	Natural Abundance Variation of Stable Isotopes. , 0, , 5-7.		0
90	Set Problems. , 0, , 122-122.		0

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91	Appendix III.A:â€˜Play True?â€™™: Stable Isotopes in Anti-doping Control or Quis custodiet ipsos custodes?. , 0, , 224-235.		0
92	Chemically Identical and Yet Not the Same. , 0, , 8-9.		0
93	Set Problems. , 0, , 50-50.		0
94	Instrumentation and 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