

Markus Greule

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7161435/publications.pdf>

Version: 2024-02-01

49
papers

1,155
citations

430754

18
h-index

434063

31
g-index

57
all docs

57
docs citations

57
times ranked

1352
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements and applications of $\delta^{2}\text{H}$ values of wood lignin methoxy groups for paleoclimatic studies. <i>Quaternary Science Reviews</i> , 2021, 268, 107107.	1.4	10
2	Chlorine Isotope Fractionation of the Major Chloromethane Degradation Processes in the Environment. <i>Environmental Science & Technology</i> , 2020, 54, 1634-1645.	4.6	7
3	Three wood isotopic reference materials for $\delta^{2}\text{H}$ and $\delta^{13}\text{C}$ measurements of plant methoxy groups. <i>Chemical Geology</i> , 2020, 533, 119428.	1.4	14
4	Insolation and Greenhouse Gas Forcing of the South American Monsoon System Across Three Glacial-Interglacial Cycles. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087948.	1.5	14
5	Tree-ring $\delta^{2}\text{H}$ values from lignin methoxyl groups indicate sensitivity to European-scale temperature changes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 546, 109665.	1.0	9
6	Sources and sinks of chloromethane in a salt marsh ecosystem: constraints from concentration and stable isotope measurements of laboratory incubation experiments. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 627-641.	1.7	12
7	The stable carbon isotope signature of methane produced by saprotrophic fungi. <i>Biogeosciences</i> , 2020, 17, 3891-3901.	1.3	11
8	Isotopic characterization of vanillin ex glucose by GC-IRMS - New challenge for natural vanilla flavour authentication?. <i>Food Control</i> , 2019, 106, 106735.	2.8	30
9	Evidence for a major missing source in the global chloromethane budget from stable carbon isotopes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1703-1719.	1.9	20
10	Methyl sulfates as methoxy isotopic reference materials for $\delta^{13}\text{C}$ and $\delta^{2}\text{H}$ measurements. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 343-350.	0.7	11
11	Methane oxidation in industrial biogas plants – Insights in a novel methanotrophic environment evidenced by pmoA gene analyses and stable isotope labelling studies. <i>Journal of Biotechnology</i> , 2018, 270, 77-84.	1.9	2
12	Mass spectrometric measurement of hydrogen isotope fractionation for the reactions of chloromethane with OH and Cl. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6625-6635.	1.9	10
13	Chloromethane formation and degradation in the fern phyllosphere. <i>Science of the Total Environment</i> , 2018, 634, 1278-1287.	3.9	13
14	Chloromethane Degradation in Soils: A Combined Microbial and Two-Dimensional Stable Isotope Approach. <i>Journal of Environmental Quality</i> , 2018, 47, 254-262.	1.0	11
15	A fast and sensitive method for the continuous in situ determination of dissolved methane and its $\delta^{13}\text{C}$ isotope ratio in surface waters. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 273-285.	1.0	7
16	Earliest Eocene cold period and polar amplification - Insights from $\delta^{2}\text{H}$ values of lignin methoxyl groups of mummified wood. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 505, 326-336.	1.0	17
17	Stable hydrogen isotope values of lignin methoxyl groups of four tree species across Germany and their implication for temperature reconstruction. <i>Science of the Total Environment</i> , 2017, 579, 263-271.	3.9	14
18	Late Quaternary relative humidity changes from Mt. Kilimanjaro, based on a coupled 2H - 18O biomarker paleohygrometer approach. <i>Quaternary International</i> , 2017, 438, 116-130.	0.7	21

#	ARTICLE	IF	CITATIONS
19	Vanilla authenticity control by DNA barcoding and isotope data aggregation. <i>Flavour and Fragrance Journal</i> , 2017, 32, 228-237.	1.2	20
20	Exogenous addition of H ₂ for an in situ biogas upgrading through biological reduction of carbon dioxide into methane. <i>Waste Management</i> , 2017, 68, 146-156.	3.7	110
21	Warm season precipitation signal in $\delta^2\text{H}$ values of wood lignin methoxyl groups from high elevation larch trees in Switzerland. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1589-1598.	0.7	13
22	Chloromethane emissions in human breath. <i>Science of the Total Environment</i> , 2017, 605-606, 405-410.	3.9	10
23	Mean annual temperatures of mid-latitude regions derived from $\delta^2\text{H}$ values of wood lignin methoxyl groups and its implications for paleoclimate studies. <i>Science of the Total Environment</i> , 2017, 574, 1276-1282.	3.9	22
24	Organic compounds in fluid inclusions of Archean quartz – Analogues of prebiotic chemistry on early Earth. <i>PLoS ONE</i> , 2017, 12, e0177570.	1.1	21
25	Climate signals in $\delta^{13}\text{C}$ of wood lignin methoxyl groups from high-elevation larch trees. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 445, 60-71.	1.0	14
26	Stable isotope and high precision concentration measurements confirm that all humans produce and exhale methane. <i>Journal of Breath Research</i> , 2016, 10, 016003.	1.5	41
27	Chloromethane release from carbonaceous meteorite affords new insight into Mars lander findings. <i>Scientific Reports</i> , 2015, 4, 7010.	1.6	16
28	Comment on Authenticity and Traceability of <i>Vanilla</i> Flavors by Analysis of Stable Isotopes of Carbon and Hydrogen. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5305-5306.	2.4	7
29	$\delta^2\text{H}$, $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ from whole wood, $\delta^{13}\text{C}$ -cellulose and lignin methoxyl groups in <i>Pinus sylvestris</i> : a multi-parameter approach. <i>Isotopes in Environmental and Health Studies</i> , 2015, 51, 553-568.	0.5	36
30	A Stable Isotope Approach to Assessing Water Loss in Fruits and Vegetables during Storage. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1974-1981.	2.4	15
31	Stable hydrogen and carbon isotope ratios of methoxyl groups during plant litter degradation. <i>Isotopes in Environmental and Health Studies</i> , 2015, 51, 143-154.	0.5	17
32	Probing the diversity of chloromethane-degrading bacteria by comparative genomics and isotopic fractionation. <i>Frontiers in Microbiology</i> , 2014, 5, 523.	1.5	21
33	D/H ratios of methoxyl groups of the sedimentary organic matter of Lake Holzmaar (Eifel, Germany): A potential palaeoclimate-/hydrology proxy. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 39-52.	1.6	12
34	Position-specific isotope analysis of the methyl group carbon in methylcobalamin for the investigation of biomethylation processes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2833-2841.	1.9	10
35	Evidence of anaerobic syntrophic acetate oxidation in biogas batch reactors by analysis of $\delta^{13}\text{C}$ carbon isotopes. <i>Isotopes in Environmental and Health Studies</i> , 2013, 49, 365-377.	0.5	13
36	Hydrogen and carbon isotope fractionation during degradation of chloromethane by methylotrophic bacteria. <i>MicrobiologyOpen</i> , 2013, 2, 893-900.	1.2	14

#	ARTICLE	IF	CITATIONS
37	Stable hydrogen-isotope analysis of methyl chloride emitted from heated halophytic plants. Atmospheric Environment, 2012, 62, 584-592.	1.9	18
38	Evidence for methane production by saprotrophic fungi. Nature Communications, 2012, 3, 1046.	5.8	169
39	Non-microbial methane formation in oxic soils. Biogeosciences, 2012, 9, 5291-5301.	1.3	29
40	Non-microbial methane emissions from fresh leaves: Effects of physical wounding and anoxia. Atmospheric Environment, 2011, 45, 4915-4921.	1.9	26
41	Stable isotope determination of ester and ether methyl moieties in plant methoxyl groups. Isotopes in Environmental and Health Studies, 2011, 47, 470-482.	0.5	16
42	Identification of methanogenic pathways in anaerobic digesters using stable carbon isotopes. Engineering in Life Sciences, 2010, 10, 509-514.	2.0	34
43	Improved rapid authentication of vanillin using $\delta^{13}\text{C}$ and $\delta^2\text{H}$ values. European Food Research and Technology, 2010, 231, 933-941.	1.6	52
44	Isotopic composition of H_2 from wood burning: Dependency on combustion efficiency, moisture content, and $\delta^2\text{H}$ of local precipitation. Journal of Geophysical Research, 2010, 115, .	3.3	22
45	Measurements of $^{13}\text{C}/^{12}\text{C}$ Methane from Anaerobic Digesters: Comparison of Optical Spectrometry with Continuous-Flow Isotope Ratio Mass Spectrometry. Environmental Science & Technology, 2010, 44, 5067-5073.	4.6	30
46	A simple rapid method to precisely determine $^{13}\text{C}/^{12}\text{C}$ ratios of plant methoxyl groups. Rapid Communications in Mass Spectrometry, 2009, 23, 1710-1714.	0.7	33
47	Heptan-2-ol and trans-linalool oxide (fur.) as inherent indicators of natural blackberry flavour using enantioselective and multielement-MDGC-IRMS analysis. European Food Research and Technology, 2008, 226, 1001-1006.	1.6	10
48	Feed additives: authenticity assessment using multicomponent-/multielement-isotope ratio mass spectrometry. European Food Research and Technology, 2008, 227, 767-776.	1.6	21
49	A rapid and precise method for determination of D/H ratios of plant methoxyl groups. Rapid Communications in Mass Spectrometry, 2008, 22, 3983-3988.	0.7	49