Joachim Mohn

List of Publications by Year in descending order

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61 2,898 26
papers citations h-index

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84 84 84 3079

all docs docs citations times ranked citing authors

175258

52

#	Article	IF	CITATIONS
1	Mechanisms of N2O production in biological wastewater treatment under nitrifying and denitrifying conditions. Water Research, 2012, 46, 1027-1037.	11.3	443
2	Full-Scale Nitrogen Removal from Digester Liquid with Partial Nitritation and Anammox in One SBR. Environmental Science & Envi	10.0	437
3	The nitrogen cycle: A review of isotope effects and isotope modeling approaches. Soil Biology and Biochemistry, 2017, 105, 121-137.	8.8	259
4	Determination of biogenic and fossil CO2 emitted by waste incineration based on 14CO2 and mass balances. Bioresource Technology, 2008, 99, 6471-6479.	9.6	139
5	Site-specific 15N isotopic signatures of abiotically produced N2O. Geochimica Et Cosmochimica Acta, 2014, 139, 72-82.	3.9	103
6	Interlaboratory assessment of nitrous oxide isotopomer analysis by isotope ratio mass spectrometry and laser spectroscopy: current status and perspectives. Rapid Communications in Mass Spectrometry, 2014, 28, 1995-2007.	1.5	89
7	In situ observations of the isotopic composition of methane at the Cabauw tall tower site. Atmospheric Chemistry and Physics, 2016, 16, 10469-10487.	4.9	77
8	Determination of N_2O isotopomers with quantum cascade laser based absorption spectroscopy. Optics Express, 2008, 16, 9239.	3 . 4	73
9	What can we learn from N ₂ O isotope data? – Analytics, processes and modelling. Rapid Communications in Mass Spectrometry, 2020, 34, e8858.	1.5	67
10	Growth of <i>Nitrosococcus</i> -Related Ammonia Oxidizing Bacteria Coincides with Extremely Low pH Values in Wastewater with High Ammonia Content. Environmental Science & Envi	10.0	64
11	Increased rates of denitrification in nitrogen-treated forest soils. Forest Ecology and Management, 2000, 137, 113-119.	3.2	61
12	Isotope Signatures of N ₂ O in a Mixed Microbial Population System: Constraints on N ₂ O Producing Pathways in Wastewater Treatment. Environmental Science & Eamp; Technology, 2013, 47, 130118101927005.	10.0	59
13	N ₂ O production and consumption from stable isotopic and concentration data in the Peruvian coastal upwelling system. Global Biogeochemical Cycles, 2017, 31, 678-698.	4.9	59
14	Isotopic evidence for nitrous oxide production pathways in a partial nitritation-anammox reactor. Water Research, 2015, 83, 258-270.	11.3	52
15	Novel laser spectroscopic technique for continuous analysis of N ₂ O isotopomers – application and intercomparison with isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 216-222.	1.5	50
16	First on-line isotopic characterization of N ₂ O above intensively managed grassland. Biogeosciences, 2015, 12, 2517-2531.	3.3	44
17	Real-time analysis of <i>l´</i> ¹³ C- and <i>l´</i> D-CH ₄ in ambient air with laser spectroscopy: method development and first intercomparison results. Atmospheric Measurement Techniques, 2016, 9, 263-280.	3.1	43
18	Bioethanol Blending Reduces Nanoparticle, PAH, and Alkyl- and Nitro-PAH Emissions and the Genotoxic Potential of Exhaust from a Gasoline Direct Injection Flex-Fuel Vehicle. Environmental Science & Emp; Technology, 2016, 50, 11853-11861.	10.0	43

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19	Fossil and biogenic CO2 from waste incineration based on a yearlong radiocarbon study. Waste Management, 2012, 32, 1516-1520.	7.4	40
20	Application of a quantum cascade laser-based spectrometer in a closed chamber system for real-time Î 13C and Î 18O measurements of soil-respired CO2. Agricultural and Forest Meteorology, 2011, 151, 39-48.	4.8	39
21	Continuous field measurements of Î' ¹³ C–CO ₂ and trace gases by FTIR spectroscopy. Isotopes in Environmental and Health Studies, 2008, 44, 241-251.	1.0	36
22	Attribution of N ₂ O sources in a grassland soil with laser spectroscopy based isotopocule analysis. Biogeosciences, 2019, 16, 3247-3266.	3.3	36
23	Methane preconcentration by adsorption: a methodology for materials and conditions selection. Adsorption, 2014, 20, 657-666.	3.0	35
24	N ₂ O isotopocule measurements using laser spectroscopy: analyzer characterization and intercomparison. Atmospheric Measurement Techniques, 2020, 13, 2797-2831.	3.1	34
25	Time-resolved ammonia measurement in vehicle exhaust. International Journal of Environment and Pollution, 2004, 22, 342.	0.2	30
26	Nitrous oxide and methane emissions and nitrous oxide isotopic composition from waste incineration in Switzerland. Waste Management, 2015, 35, 135-140.	7.4	30
27	Co-formation and co-release of genotoxic PAHs, alkyl-PAHs and soot nanoparticles from gasoline direct injection vehicles. Atmospheric Environment, 2018, 178, 242-254.	4.1	29
28	First real-time isotopic characterisation of N2O from chemodenitrification. Geochimica Et Cosmochimica Acta, 2019, 267, 17-32.	3.9	28
29	Successful year-round mainstream partial nitritation anammox: Assessment of effluent quality, performance and N2O emissions. Water Research X, 2022, 16, 100145.	6.1	28
30	Optimization of automated gas sample collection and isotope ratio mass spectrometric analysis of $\langle i \rangle \hat{l}' \langle i \rangle \langle sup \rangle 13 \langle sup \rangle C$ of CO $\langle sub \rangle 2 \langle sub \rangle$ in air. Rapid Communications in Mass Spectrometry, 2008, 22, 3883-3892.	1.5	26
31	Advances in reference materials and measurement techniques for greenhouse gas atmospheric observations. Metrologia, 2019, 56, 034006.	1.2	24
32	In-depth analysis of N2O fluxes in tropical forest soils of the Congo Basin combining isotope and functional gene analysis. ISME Journal, 2021, 15, 3357-3374.	9.8	24
33	High-precision l´13CO2 analysis by FTIR spectroscopy using a novel calibration strategy. Journal of Molecular Structure, 2007, 834-836, 95-101.	3.6	23
34	Tracking nitrous oxide emission processes at a suburban site with semicontinuous, in situ measurements of isotopic composition. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1850-1870.	3.3	23
35	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
36	A dual tracer ratio method for comparative emission measurements in an experimental dairy housing. Atmospheric Environment, 2018, 179, 12-22.	4.1	19

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37	Temperature Dependence and Interferences of NO and N ₂ 0 Microelectrodes Used in Wastewater Treatment. Environmental Science & Environmental	10.0	17
38	Reassessment of the NH ₄ NO ₃ thermal decomposition technique for calibration of the N ₂ O isotopic composition. Rapid Communications in Mass Spectrometry, 2016, 30, 2487-2496.	1.5	17
39	Effects of Four Prototype Gasoline Particle Filters (GPFs) on Nanoparticle and Genotoxic PAH Emissions of a Gasoline Direct Injection (GDI) Vehicle. Environmental Science & Dr. Technology, 2018, 52, 10709-10718.	10.0	17
40	Low N2O and variable CH4 fluxes from tropical forest soils of the Congo Basin. Nature Communications, 2022, 13, 330.	12.8	17
41	N ₂ O emissions and source processes in snow-covered soils in the Swiss Alps. Isotopes in Environmental and Health Studies, 2013, 49, 520-531.	1.0	15
42	Development of a field-deployable method for simultaneous, real-time measurements of the four most abundant N ₂ O isotopocules. Isotopes in Environmental and Health Studies, 2018, 54, 1-15.	1.0	13
43	Tracing N2O formation in full-scale wastewater treatment with natural abundance isotopes indicates control by organic substrate and process settings. Water Research X, 2022, 15, 100130.	6.1	12
44	Denitrification Is the Main Nitrous Oxide Source Process in Grassland Soils According to Quasiâ€Continuous Isotopocule Analysis and Biogeochemical Modeling. Global Biogeochemical Cycles, 2020, 34, e2019GB006505.	4.9	11
45	Methane Emissions and Milk Fatty Acid Profiles in Dairy Cows Fed Linseed, Measured at the Group Level in a Naturally Ventilated Housing and Individually in Respiration Chambers. Animals, 2020, 10, 1091.	2.3	11
46	The isotopic composition of atmospheric nitrous oxide observed at the high-altitude research station Jungfraujoch, Switzerland. Atmospheric Chemistry and Physics, 2020, 20, 6495-6519.	4.9	11
47	Biofuel-Promoted Polychlorinated Dibenzodioxin/furan Formation in an Iron-Catalyzed Diesel Particle Filter. Environmental Science & Environmental Scie	10.0	10
48	Quantifying Isotopic Signatures of Nâ,,O Using Quantum Cascade Laser Absorption Spectroscopy. Chimia, 2019, 73, 232.	0.6	9
49	Assessment of the inverse dispersion method for the determination of methane emissions from a dairy housing. Agricultural and Forest Meteorology, 2021, 307, 108501.	4.8	9
50	First investigation and absolute calibration of clumped isotopes in N ₂ O by midâ€infrared laser spectroscopy. Rapid Communications in Mass Spectrometry, 2020, 34, e8836.	1.5	7
51	Isotopically characterised N ₂ O reference materials for use as community standards. Rapid Communications in Mass Spectrometry, 2022, 36, e9296.	1.5	5
52	Nitrogen isotope effects can be used to diagnose N transformations in wastewater anammox systems. Scientific Reports, 2021, 11, 7850.	3.3	4
53	Comparison of Methane Emission Patterns from Dairy Housings with Solid and Slatted Floors at Two Locations. Agronomy, 2022, 12, 381.	3.0	3
54	CleanEx: A Versatile Automated Methane Preconcentration Device for High-Precision Analysis of ¹³ CH ₄ , ¹² CH ₃ D, and ¹³ CH ₃ D. Analytical Chemistry, 2022, 94, 9981-9986.	6.5	3

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55	Using Isotopic Fingerprints to Trace Nitrous Oxide in the Atmosphere. Chimia, 2017, 71, 46-46.	0.6	2
56	Photolytic fractionation of seven singly and doubly substituted nitrous oxide isotopocules measured by quantum cascade laser absorption spectroscopy. Atmospheric Environment: X, 2020, 8, 100094.	1.4	2
57	Characterisation of gas reference materials for underpinning atmospheric measurements of stable isotopes of nitrous oxide. Atmospheric Measurement Techniques, 2021, 14, 5447-5458.	3.1	1
58	Clumped isotope signatures of nitrous oxide formed by bacterial denitrification. Geochimica Et Cosmochimica Acta, 2022, 328, 120-129.	3.9	1
59	MIR Spectroscopy beyond trace levels - environmental and industrial applications. , 2015, , .		О
60	Multi-Species, High-Precision MIR Trace Gas Detection for Environmental Applications., 2018,,.		0
61	Optical isotope ratio spectroscopy – complementing isotope ratio mass spectrometry. , 2021, , .		0