

Naohiro Yoshida

List of Publications by Year in descending order

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281
papers

11,672
citations

26630

56
h-index

43889

91
g-index

318
all docs

318
docs citations

318
times ranked

9500
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence from fluid inclusions for microbial methanogenesis in the early Archaean era. <i>Nature</i> , 2006, 440, 516-519.	27.8	459
2	Determination of Nitrogen Isotopomers of Nitrous Oxide on a Modified Isotope Ratio Mass Spectrometer. <i>Analytical Chemistry</i> , 1999, 71, 4711-4718.	6.5	314
3	Constraining the atmospheric N ₂ O budget from intramolecular site preference in N ₂ O isotopomers. <i>Nature</i> , 2000, 405, 330-334.	27.8	301
4	Hadal biosphere: Insight into the microbial ecosystem in the deepest ocean on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1230-6.	7.1	277
5	Tracking the Fukushima Radionuclides. <i>Science</i> , 2012, 336, 1115-1116.	12.6	273
6	15N-depleted N ₂ O as a product of nitrification. <i>Nature</i> , 1988, 335, 528-529.	27.8	249
7	Fractionation of N ₂ O isotopomers during production by denitrifier. <i>Soil Biology and Biochemistry</i> , 2005, 37, 1535-1545.	8.8	246
8	Homogeneous climate variability across East Antarctica over the past three glacial cycles. <i>Nature</i> , 2003, 422, 509-512.	27.8	238
9	Evidence of deuterium excess in water vapor as an indicator of ocean surface conditions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	236
10	N ₂ O production, a widespread trait in fungi. <i>Scientific Reports</i> , 2015, 5, 9697.	3.3	190
11	Nitrification rates and 15N abundances of N ₂ O and NO ₃ ⁻ in the western North Pacific. <i>Nature</i> , 1989, 342, 895-897.	27.8	152
12	Carbon isotope chemostratigraphy of a Precambrian/Cambrian boundary section in the Three Gorge area, South China: Prominent global-scale isotope excursions just before the Cambrian Explosion. <i>Gondwana Research</i> , 2008, 14, 193-208.	6.0	147
13	Land-Surface Contamination by Radionuclides from the Fukushima Daiichi Nuclear Power Plant Accident. <i>Elements</i> , 2012, 8, 201-206.	0.5	137
14	Geological sulfur isotopes indicate elevated OCS in the Archean atmosphere, solving faint young sun paradox. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14784-14789.	7.1	136
15	1-D-ice flow modelling at EPICA Dome C and Dome Fuji, East Antarctica. <i>Climate of the Past</i> , 2007, 3, 243-259.	3.4	135
16	Microbiology of nitrogen cycle in animal manure compost. <i>Microbial Biotechnology</i> , 2011, 4, 700-709.	4.2	133
17	Source of Nitrous Oxide Emissions during the Cow Manure Composting Process as Revealed by Isotopomer Analysis of and ¹⁵ N Abundance in Betaproteobacterial Ammonia-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1555-1562.	3.1	126
18	Isotopocule analysis of biologically produced nitrous oxide in various environments. <i>Mass Spectrometry Reviews</i> , 2017, 36, 135-160.	5.4	126

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19	Characterization and production and consumption processes of N ₂ O emitted from temperate agricultural soils determined via isotopomer ratio analysis. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	123
20	Hydrothermal fluid geochemistry at the Iheya North field in the mid-Okinawa Trough: Implication for origin of methane in seafloor fluid circulation systems. <i>Geochemical Journal</i> , 2011, 45, 109-124.	1.0	122
21	Carbon isotopic distribution of methane in deep-sea hydrothermal plume, Myojin Knoll Caldera, Izu-Bonin arc: implications for microbial methane oxidation in the oceans and applications to heat flux estimation. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2439-2452.	3.9	121
22	Nitrogen and oxygen isotopomeric constraints on the origins and sea-to-air flux of N ₂ O in the oligotrophic subtropical North Pacific gyre. <i>Global Biogeochemical Cycles</i> , 2002, 16, 12-1-12-10.	4.9	116
23	Role of nitrification and denitrification on the nitrous oxide cycle in the eastern tropical North Pacific and Gulf of California. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	110
24	InterCarb: A Community Effort to Improve Interlaboratory Standardization of the Carbonate Clumped Isotope Thermometer Using Carbonate Standards. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009588.	2.5	110
25	Source identification of nitrous oxide emission pathways from a single-stage nitrification-anammox granular reactor. <i>Water Research</i> , 2016, 102, 147-157.	11.3	106
26	Modern isotope climatology of Russia: A first assessment. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	103
27	High-precision spectroscopy of ³² S, ³³ S, and ³⁴ S sulfur dioxide: Ultraviolet absorption cross sections and isotope effects. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	101
28	Carbon and oxygen isotope chemostratigraphies of the Yangtze platform, South China: Decoding temperature and environmental changes through the Ediacaran. <i>Gondwana Research</i> , 2013, 23, 333-353.	6.0	101
29	Origin of methane in serpentinite-hosted hydrothermal systems: The CH ₄ -H ₂ O hydrogen isotope systematics of the Hakuba Happo hot spring. <i>Earth and Planetary Science Letters</i> , 2014, 386, 112-125.	4.4	100
30	Production mechanism and global budget of N ₂ O inferred from its isotopomers in the western North Pacific. <i>Geophysical Research Letters</i> , 2002, 29, 7-1.	4.0	98
31	Is the isotopic composition of nitrous oxide an indicator for its origin from nitrification or denitrification? A theoretical approach from referred data and microbiological and enzyme kinetic aspects. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2036-2040.	1.5	94
32	¹⁵ N/ ¹⁴ N ratio of dissolved N ₂ O in the eastern tropical Pacific Ocean. <i>Nature</i> , 1984, 307, 442-444.	27.8	92
33	Biogeochemistry of nitrous oxide in groundwater in a forested ecosystem elucidated by nitrous oxide isotopomer measurements. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3115-3133.	3.9	92
34	Interlaboratory assessment of nitrous oxide isotopomer analysis by isotope ratio mass spectrometry and laser spectroscopy: current status and perspectives. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1995-2007.	1.5	89
35	Denitrification and nitrous oxide cycling within the upper oxycline of the eastern tropical South Pacific oxygen minimum zone. <i>Limnology and Oceanography</i> , 2009, 54, 132-144.	3.1	85
36	Carbon isotopic compositions of C ₂ -C ₅ hydrocarbons and methyl chloride in urban, coastal, and maritime atmospheres over the western North Pacific. <i>Journal of Geophysical Research</i> , 1999, 104, 16033-16039.	3.3	83

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37	Salinity records for the 1997–98 El Niño from Western Pacific corals. <i>Geophysical Research Letters</i> , 2002, 29, 35-1.	4.0	82
38	Deep-biosphere methane production stimulated by geofluids in the Nankai accretionary complex. <i>Science Advances</i> , 2018, 4, eaao4631.	10.3	79
39	Isotopomer Analysis of Production and Consumption Mechanisms of N ₂ O and CH ₄ in an Advanced Wastewater Treatment System. <i>Environmental Science & Technology</i> , 2011, 45, 917-922.	10.0	77
40	Nitrogen isotope ratio of atmospheric N ₂ O as a key to the global cycle of N ₂ O. <i>Geochemical Journal</i> , 1983, 17, 231-239.	1.0	76
41	Gas seepage from Tokamachi mud volcanoes, onshore Niigata Basin (Japan): Origin, post-genetic alterations and CH ₄ –CO ₂ fluxes. <i>Applied Geochemistry</i> , 2011, 26, 348-359.	3.0	75
42	Diurnal fluxes and the isotopomer ratios of N ₂ O in a temperate grassland following urine amendment. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1263-1269.	1.5	73
43	Dual isotope and isotopomer ratios of N ₂ O emitted from a temperate grassland soil after fertiliser application. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2550-2556.	1.5	73
44	Site selective real-time measurements of atmospheric N ₂ O isotopomers by laser spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1601-1609.	3.1	72
45	Geochemical origin of hydrothermal fluid methane in sediment-associated fields and its relevance to the geographical distribution of whole hydrothermal circulation. <i>Chemical Geology</i> , 2013, 339, 213-225.	3.3	70
46	Irreversible change of the oceanic carbon cycle in the earliest Cambrian: High-resolution organic and inorganic carbon chemostratigraphy in the Three Gorges area, South China. <i>Precambrian Research</i> , 2013, 225, 190-208.	2.7	69
47	Production of methane from allasses in eastern Siberia: Implications from its ¹⁴ C and stable isotopic compositions. <i>Global Biogeochemical Cycles</i> , 2002, 16, 14-1-14-15.	4.9	68
48	Relative Contribution of <i>nirK</i> and <i>nirS</i> Bacterial Denitrifiers as Well as Fungal Denitrifiers to Nitrous Oxide Production from Dairy Manure Compost. <i>Environmental Science & Technology</i> , 2017, 51, 14083-14091.	10.0	68
49	Metals likely promoted protometabolism in early ocean alkaline hydrothermal systems. <i>Science Advances</i> , 2019, 5, eaav7848.	10.3	68
50	Carbon isotopic evidence of methane oxidation through sulfate reduction in sediment beneath cold seep vents on the seafloor at Nankai Trough. <i>Marine Geology</i> , 2002, 187, 145-160.	2.1	67
51	Control of Al Distribution in the CHA-Type Aluminosilicate Zeolites and Its Impact on the Hydrothermal Stability and Catalytic Properties. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3914-3922.	3.7	67
52	What can we learn from N ₂ O isotope data? – Analytics, processes and modelling. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8858.	1.5	67
53	Measurement of position-specific ¹³ C isotopic composition of propane at the nanomole level. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 177, 205-216.	3.9	66
54	Isotopomer analysis of nitrous oxide accumulated in soil cultivated with tea (<i>Camellia sinensis</i>) in Shizuoka, central Japan. <i>Soil Biology and Biochemistry</i> , 2014, 77, 276-291.	8.8	65

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55	Source identification of nitrous oxide on autotrophic partial nitrification in a granular sludge reactor. <i>Water Research</i> , 2013, 47, 7078-7086.	11.3	62
56	Nitrous oxide cycling in the Black Sea inferred from stable isotope and isotopomer distributions. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1802-1816.	1.4	60
57	N_2O production and consumption from stable isotopic and concentration data in the Peruvian coastal upwelling system. <i>Global Biogeochemical Cycles</i> , 2017, 31, 678-698.	4.9	59
58	Preparation of carbon dioxide for oxygen-18 determination of water by use of a plastic syringe. <i>Analytical Chemistry</i> , 1986, 58, 1273-1275.	6.5	57
59	Compound- and position-specific carbon isotopic signatures of abiogenic hydrocarbons from an "land serpentinite"-hosted Hakuba Happo hot spring in Japan. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 206, 201-215.	3.9	57
60	A liquid nitrogen-free preconcentration unit for measurements of ambient N_2O isotopomers by QCLAS. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 609-618.	3.1	55
61	Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values. <i>Water Resources Research</i> , 2010, 46, .	4.2	55
62	High net accumulation rates at Campo de Hielo Patagónico Sur, South America, revealed by analysis of a 45.97 m long ice core. <i>Annals of Glaciology</i> , 2002, 35, 84-90.	1.4	53
63	Isotopomeric analysis of N_2O dissolved in a river in the Tokyo metropolitan area. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 809-821.	1.5	53
64	Microbial methane production in deep aquifer associated with the accretionary prism in Southwest Japan. <i>ISME Journal</i> , 2010, 4, 531-541.	9.8	53
65	Oxygen isotope correlation of cetacean bone phosphate with environmental water. <i>Journal of Geophysical Research</i> , 1991, 96, 815-820.	3.3	52
66	The $\delta^{13}C$ excursions spanning the Cambrian explosion to the Canglangpuian mass extinction in the Three Gorges area, South China. <i>Gondwana Research</i> , 2014, 25, 1045-1056.	6.0	52
67	The appearance of an oxygen-depleted condition on the Capitanian disphotic slope/basin in South China: Middle "Upper Permian stratigraphy at Chaotian in northern Sichuan. <i>Global and Planetary Change</i> , 2013, 105, 180-192.	3.5	50
68	SO_2 photoexcitation mechanism links mass-independent sulfur isotopic fractionation in cryospheric sulfate to climate impacting volcanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17656-17661.	7.1	50
69	Identification of key nitrous oxide production pathways in aerobic partial nitrifying granules. <i>Environmental Microbiology</i> , 2014, 16, 3168-3180.	3.8	49
70	Fractionation of N_2O isotopomers in the stratosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 7515-7522.	3.3	48
71	Measurement of isotopomer signatures of N_2O in groundwater. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	45
72	Ultraviolet absorption cross sections of carbonyl sulfide isotopologues OC_2S , OC_3S , OC_4S and OC_3S and OC_3S isotopic fractionation in photolysis and atmospheric implications. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10293-10303.	4.9	45

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73	Mitigation of greenhouse gas emission from the cattle manure composting process by use of a bulking agent. <i>Soil Science and Plant Nutrition</i> , 2013, 59, 96-106.	1.9	45
74	Isotopomer analysis of production, consumption and soil-to-atmosphere emission processes of N ₂ O at the beginning of paddy field irrigation. <i>Soil Biology and Biochemistry</i> , 2014, 70, 66-78.	8.8	45
75	Isotope analysis of environmental substances by a new laser-spectroscopic method utilizing different pathlengths. <i>Sensors and Actuators B: Chemical</i> , 2001, 74, 173-178.	7.8	44
76	Intramolecular isotopic evidence for bacterial oxidation of propane in subsurface natural gas reservoirs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6653-6658.	7.1	44
77	Exploration of intramolecular ¹³ C isotope distribution in long chain n-alkanes (C ₁₁ –C ₃₁) using isotopic ¹³ C NMR. <i>Organic Geochemistry</i> , 2013, 62, 56-61.	1.8	43
78	Extending records of the isotopic composition of atmospheric N ₂ O back to 1800 A.D. from air trapped in snow at the South Pole and the Greenland Ice Sheet Project II ice core. <i>Global Biogeochemical Cycles</i> , 2002, 16, 76-1-76-10.	4.9	42
79	Measurement of the Isotope Ratio of Acetic Acid in Vinegar by HS-SPME-GC-TC/C-IRMS. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 7115-7118.	5.2	42
80	Middle–Upper Permian carbon isotope stratigraphy at Chaotian, South China: Pre-extinction multiple upwelling of oxygen-depleted water onto continental shelf. <i>Journal of Asian Earth Sciences</i> , 2013, 67-68, 51-62.	2.3	42
81	Seasonal variations of triple oxygen isotopic compositions of atmospheric sulfate, nitrate, and ozone at Dumont d'Urville, coastal Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3713-3727.	4.9	42
82	Dynamics of dissolved O ₂ , CO ₂ , CH ₄ , and N ₂ O in a tropical coastal swamp in southern Thailand. <i>Biogeochemistry</i> , 2000, 49, 191-215.	3.5	41
83	Title is missing!. <i>Biogeochemistry</i> , 2002, 61, 1-19.	3.5	41
84	Nitrous oxide emission from the burning of agricultural residue. <i>Atmospheric Environment</i> , 2005, 39, 3421-3429.	4.1	41
85	Contributions of denitrification and mixing on the distribution of nitrous oxide in the North Pacific. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	41
86	Geoelectrochemical CO production: Implications for the autotrophic origin of life. <i>Science Advances</i> , 2018, 4, eaao7265.	10.3	41
87	2600-years of stratospheric volcanism through sulfate isotopes. <i>Nature Communications</i> , 2019, 10, 466.	12.8	40
88	Oxygen isotope composition of natural phosphates from volcanic ash soils of the Great Rift Valley of Africa and east Java, Indonesia. <i>Geoderma</i> , 1992, 53, 111-123.	5.1	39
89	Stable carbon isotopic compositions of light hydrocarbons over the western North Pacific and implication for their photochemical ages. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 2-1.	3.3	39
90	Intramolecular Carbon Isotope Distribution of Acetic Acid in Vinegar. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 9049-9053.	5.2	39

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91	The ¹⁵ N natural abundance of the N lost from an N-saturated subtropical forest in southern China. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	39
92	Site-specific ¹³ C content by quantitative isotopic ¹³ C Nuclear Magnetic Resonance spectrometry: A pilot inter-laboratory study. <i>Analytica Chimica Acta</i> , 2013, 788, 108-113.	5.4	39
93	Isotopomeric characterization of nitrous oxide produced by reaction of enzymes extracted from nitrifying and denitrifying bacteria. <i>Biogeosciences</i> , 2014, 11, 2679-2689.	3.3	39
94	On-line measurement of intramolecular carbon isotope distribution of acetic acid by continuous-flow isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 1059-1064.	1.5	38
95	Factors controlling isotopic composition of precipitation on Okinawa Island, Japan: Implications for paleoclimate reconstruction in the East Asian Monsoon region. <i>Journal of Hydrology</i> , 2012, 475, 314-322.	5.4	38
96	Decadal time series of tropospheric abundance of N ₂ O isotopomers and isotopologues in the Northern Hemisphere obtained by the long-term observation at Hateruma Island, Japan. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3369-3381.	3.3	38
97	⁸⁷ Sr/ ⁸⁶ Sr chemostratigraphy of Neoproterozoic Dalradian carbonates below the Port Askaig Glaciogenic Formation, Scotland. <i>Precambrian Research</i> , 2010, 179, 150-164.	2.7	37
98	In situ iron isotope analyses of pyrite and organic carbon isotope ratios in the Fortescue Group: Metabolic variations of a Late Archean ecosystem. <i>Precambrian Research</i> , 2012, 212-213, 169-193.	2.7	37
99	Diurnal variation of CO ₂ concentration, Δ ¹⁴ C and δ ¹³ C in an urban forest: estimate of the anthropogenic and biogenic CO ₂ contributions. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 97-109.	1.6	35
100	Temporal and latitudinal distributions of stratospheric N ₂ O isotopomers. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	35
101	Nitrous oxide distribution and its origin in the central and eastern South Pacific Subtropical Gyre. <i>Biogeosciences</i> , 2007, 4, 729-741.	3.3	35
102	Photoabsorption cross-section measurements of ³² S, ³³ S, ³⁴ S, and ³⁶ S sulfur dioxide from 190 to 220 nm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2546-2557.	3.3	35
103	An improved method for measurement of the hydrogen isotope ratio of atmospheric methane and its application to a Japanese urban atmosphere. <i>Atmospheric Environment</i> , 2003, 37, 1975-1982.	4.1	34
104	Automobile exhaust as a source of ¹³ C- and D-enriched atmospheric methane in urban areas. <i>Organic Geochemistry</i> , 2005, 36, 727-738.	1.8	34
105	An observation-based method for reconstructing ocean surface changes using a 340,000-year deuterium excess record from the Dome Fuji ice core, Antarctica. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	33
106	Comparison of IRMS and NMR spectrometry for the determination of intramolecular ¹³ C isotope composition: Application to ethanol. <i>Talanta</i> , 2012, 99, 1035-1039.	5.5	33
107	Evaluation of wastewater nitrogen transformation in a natural wetland (Ulaanbaatar, Mongolia) using dual-isotope analysis of nitrate. <i>Science of the Total Environment</i> , 2011, 409, 1530-1538.	8.0	32
108	Tracing the sources and formation pathways of atmospheric particulate nitrate over the Pacific Ocean using stable isotopes. <i>Atmospheric Environment</i> , 2019, 209, 152-166.	4.1	32

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109	Precise Isotopic Measurements of Nitrogen at the Sub-Nanomole Level.. Analytical Sciences, 1998, 14, 485-491.	1.6	31
110	Response of N ₂ O production rate to ocean acidification in the western North Pacific. Nature Climate Change, 2019, 9, 954-958.	18.8	31
111	Relationship between the variation of isotopic ratios and the source of summer precipitation in eastern Siberia. Journal of Geophysical Research, 2003, 108, .	3.3	30
112	Seasonal change in microbial sulfur cycling in monomictic Lake Fukami, Japan. Limnology and Oceanography, 2012, 57, 974-988.	3.1	30
113	Conditions to obtain precise and true measurements of the intramolecular ¹³ C distribution in organic molecules by isotopic ¹³ C nuclear magnetic resonance spectrometry. Analytica Chimica Acta, 2014, 846, 1-7.	5.4	30
114	A 6.5-year continuous record of sea surface salinity and seawater isotopic composition at Harbour of Ishigaki Island, southwest Japan. Isotopes in Environmental and Health Studies, 2009, 45, 247-258.	1.0	29
115	Isotopic evidence for water-column denitrification and sulfate reduction at the end-Guadalupian (Middle Permian). Global and Planetary Change, 2014, 123, 110-120.	3.5	29
116	Botanical and Geographical Origin Identification of Industrial Ethanol by Stable Isotope Analyses of C, H, and O. Bioscience, Biotechnology and Biochemistry, 2005, 69, 2193-2199.	1.3	28
117	Isotopic analysis of N ₂ O produced in a conventional wastewater treatment system operated under different aeration conditions. Rapid Communications in Mass Spectrometry, 2014, 28, 1883-1892.	1.5	28
118	Position-Specific Isotope Analysis of Xanthines: A ¹³ C Nuclear Magnetic Resonance Method to Determine the ¹³ C Intramolecular Composition at Natural Abundance. Analytical Chemistry, 2015, 87, 6600-6606.	6.5	28
119	The marine environments encompassing the Neoproterozoic glaciations: Evidence from C, Sr and Fe isotope ratios in the Hecla Hoek Supergroup in Svalbard. Precambrian Research, 2015, 263, 19-42.	2.7	28
120	The seasonal variations of atmospheric ¹³⁴ Cs, ¹³⁷ Cs activity and possible host particles for their resuspension in the contaminated areas of Tsushima and Yamakiya, Fukushima, Japan. Progress in Earth and Planetary Science, 2018, 5, .	3.0	28
121	Source evaluation of atmospheric methane over western Siberia using double stable isotopic signatures. Organic Geochemistry, 2005, 36, 717-726.	1.8	27
122	Ab initio study of sulfur isotope fractionation in the reaction of OCS with OH. Chemical Physics Letters, 2008, 450, 214-220.	2.6	27
123	Photoabsorption cross-section measurements of ³² S, ³³ S, ³⁴ S, and ³⁶ S sulfur dioxide for the ¹³ C absorption band. Journal of Geophysical Research, 2012, 117, .	3.3	27
124	Depth variation of carbon and oxygen isotopes of calcites in Archean altered upperoceanic crust: Implications for the CO ₂ flux from ocean to oceanic crust in the Archean. Earth and Planetary Science Letters, 2012, 321-322, 64-73.	4.4	27
125	Denitrifiers in the surface zone are primarily responsible for the nitrous oxide emission of dairy manure compost. Journal of Hazardous Materials, 2013, 248-249, 329-336.	12.4	27
126	Nitrogen isotope ratios of nitrate and N* anomalies in the subtropical South Pacific. Geochemistry, Geophysics, Geosystems, 2015, 16, 1439-1448.	2.5	27

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127	Determination of the Sulfur Isotope Ratio in Carbonyl Sulfide Using Gas Chromatography/Isotope Ratio Mass Spectrometry on Fragment Ions $^{32}\text{S}^+$, $^{33}\text{S}^+$, and $^{34}\text{S}^+$. <i>Analytical Chemistry</i> , 2015, 87, 477-484.	6.5	27
128	Distribution of nitrous oxide dissolved in water masses in the eastern subtropical North Pacific and its origin inferred from isotopomer analysis. <i>Journal of Oceanography</i> , 2013, 69, 147-157.	1.7	26
129	Hydrogen isotope systematics among H_2O – CH_4 during the growth of the hydrogenotrophic methanogen <i>Methanothermobacter thermoautotrophicus</i> strain I ^H . <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 601-614.	3.9	26
130	Differential N_2O dynamics in two oxygen-deficient lake basins revealed by stable isotope and isotopomer distributions. <i>Limnology and Oceanography</i> , 2016, 61, 1735-1749.	3.1	26
131	Biogeochemistry of nitrous oxide in Lake Kizaki, Japan, elucidated by nitrous oxide isotopomer analysis. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	25
132	OCS photolytic isotope effects from first principles: sulfur and carbon isotopes, temperature dependence and implications for the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1511-1520.	4.9	25
133	Site-selective nitrogen isotopic ratio measurement of nitrous oxide using 2 $\frac{1}{4}$ m diode lasers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 957-962.	3.9	24
134	Isotopic composition and origin of snow over Siberia. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	24
135	Isotopomeric characterization of N_2O produced, consumed, and emitted by automobiles. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 603-612.	1.5	24
136	Carbonyl sulfide isotopologues: Ultraviolet absorption cross sections and stratospheric photolysis. <i>Journal of Chemical Physics</i> , 2009, 131, 024307.	3.0	24
137	Isotopomer and isotopologue signatures of N_2O produced in alpine ecosystems on the Qinghai–Tibetan Plateau. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1517-1526.	1.5	24
138	Clumped isotope signatures of methane-derived authigenic carbonate presenting equilibrium values of their formation temperatures. <i>Earth and Planetary Science Letters</i> , 2019, 512, 207-213.	4.4	24
139	Isotopic evidence for acidity-driven enhancement of sulfate formation after SO_2 emission control. <i>Science Advances</i> , 2021, 7, .	10.3	24
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