

Wendell W Walters

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,035
citations

471509

17
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526287

27
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all docs

28
docs citations

28
times ranked

722
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen Stable Isotope Composition ($\delta^{15}\text{N}$) of Vehicle-Emitted NO_x . Environmental Science & Technology, 2015, 49, 2278-2285.	10.0	142
2	Nitrogen Isotope Composition of Thermally Produced NO_x from Various Fossil-Fuel Combustion Sources. Environmental Science & Technology, 2015, 49, 11363-11371.	10.0	105
3	Theoretical calculation of nitrogen isotope equilibrium exchange fractionation factors for various NO_y molecules. Geochimica Et Cosmochimica Acta, 2015, 164, 284-297.	3.9	100
4	Theoretical calculation of oxygen equilibrium isotope fractionation factors involving various NO molecules, OH , and H_2O and its implications for isotope variations in atmospheric nitrate. Geochimica Et Cosmochimica Acta, 2016, 191, 89-101.	3.9	94
5	Nitrogen isotope exchange between NO and NO_2 and its implications for $\delta^{15}\text{N}$ variations in tropospheric NO_x and atmospheric nitrate. Geophysical Research Letters, 2016, 43, 440-448.	4.0	77
6	Theoretical Phase Resolved Ammonia–Ammonium Nitrogen Equilibrium Isotope Exchange Fractionations: Applications for Tracking Atmospheric Ammonia Gas-to-Particle Conversion. ACS Earth and Space Chemistry, 2019, 3, 79-89.	2.7	56
7	Substantial nitrogen oxides emission reduction from China due to COVID-19 and its impact on surface ozone and aerosol pollution. Science of the Total Environment, 2021, 753, 142238.	8.0	55
8	Systematic low bias of passive samplers in characterizing nitrogen isotopic composition of atmospheric ammonia. Atmospheric Research, 2020, 243, 105018.	4.1	40
9	Vehicular Emissions Enhanced Ammonia Concentrations in Winter Mornings: Insights from Diurnal Nitrogen Isotopic Signatures. Environmental Science & Technology, 2022, 56, 1578-1585.	10.0	37
10	Revisiting the Concentration Observations and Source Apportionment of Atmospheric Ammonia. Advances in Atmospheric Sciences, 2020, 37, 933-938.	4.3	36
11	Summertime diurnal variations in the isotopic composition of atmospheric nitrogen dioxide at a small midwestern United States city. Atmospheric Environment, 2018, 179, 1-11.	4.1	34
12	Characterizing the spatiotemporal nitrogen stable isotopic composition of ammonia in vehicle plumes. Atmospheric Chemistry and Physics, 2020, 20, 11551-11567.	4.9	34
13	Collection of Ammonia for High Time-Resolved Nitrogen Isotopic Characterization Utilizing an Acid-Coated Honeycomb Denuder. Analytical Chemistry, 2018, 90, 8051-8057.	6.5	33
14	Nitrate Isotopic Composition in Precipitation at a Chinese Megacity: Seasonal Variations, Atmospheric Processes, and Implications for Sources. Earth and Space Science, 2019, 6, 2200-2213.	2.6	32
15	Is fertilization the dominant source of ammonia in the urban atmosphere?. Science of the Total Environment, 2022, 838, 155890.	8.0	24
16	Isotopic evidence that recent agriculture overprints climate variability in nitrogen deposition to the Tibetan Plateau. Environment International, 2020, 138, 105614.	10.0	23
17	Assessing the Seasonal Dynamics of Nitrate and Sulfate Aerosols at the South Pole Utilizing Stable Isotopes. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8161-8177.	3.3	21
18	Ab initio study of nitrogen and position-specific oxygen kinetic isotope effects in the $\text{NO} + \text{O}_3$ reaction. Journal of Chemical Physics, 2016, 145, 224311.	3.0	16

#	ARTICLE	IF	CITATIONS
19	Isotopic evidence for dominant secondary production of HONO in near-ground wildfire plumes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13077-13098.	4.9	16
20	Selective Collection of Particulate Ammonium for Nitrogen Isotopic Characterization Using a Denuder Filter Pack Sampling Device. <i>Analytical Chemistry</i> , 2019, 91, 7586-7594.	6.5	14
21	Highly concentrated atmospheric inorganic nitrogen deposition in an urban, coastal region in the US. <i>Environmental Research Communications</i> , 2020, 2, 081001.	2.3	13
22	¹⁵ N natural abundance of vehicular exhaust ammonia, quantified by active sampling techniques. <i>Atmospheric Environment</i> , 2021, 255, 118430.	4.1	11
23	Atmospheric nitrate formation pathways in urban and rural atmosphere of Northeast China: Implications for complicated anthropogenic effects. <i>Environmental Pollution</i> , 2022, 296, 118752.	7.5	11
24	¹⁵ N into the Regional Atmospheric Chemistry Mechanism (RACM) for assessing the role photochemistry plays in controlling the isotopic composition of NO _x , NO _y , and atmospheric nitrate. <i>Geoscientific Model Development</i> , 2021, 14, 5001-5022.	3.6	7
25	Sources of ammonium in seasonal wet deposition at a coastal New England city. <i>Atmospheric Environment</i> , 2021, 260, 118557.	4.1	2
26	Performance of a high-resolution mid-IR optical-parametric-oscillator transient absorption spectrometer. <i>Optics Express</i> , 2014, 22, 14885.	3.4	1
27	Speciated Collection of Nitric Acid and Fine Particulate Nitrate for Nitrogen and Oxygen Stable Isotope Determination. <i>Analytical Chemistry</i> , 2020, 92, 16079-16088.	6.5	1
28	Isotopes, Stable. , 2019, , .		0