

# Greg Michalski

## List of Publications by Year in descending order

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60  
papers

3,325  
citations

147801

31  
h-index

149698

56  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2996  
citing authors

#	ARTICLE	IF	CITATIONS
1	First measurements and modeling of $\delta^{17}\text{O}$ in atmospheric nitrate. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	272
2	Long term atmospheric deposition as the source of nitrate and other salts in the Atacama Desert, Chile: New evidence from mass-independent oxygen isotopic compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4023-4038.	3.9	271
3	Fossil Fuel Combustion-Related Emissions Dominate Atmospheric Ammonia Sources during Severe Haze Episodes: Evidence from $\delta^{15}\text{N}$ -Stable Isotope in Size-Resolved Aerosol Ammonium. <i>Environmental Science &amp; Technology</i> , 2016, 50, 8049-8056.	10.0	261
4	Neogene climate change and uplift in the Atacama Desert, Chile. <i>Geology</i> , 2006, 34, 761.	4.4	192
5	Nitrogen Stable Isotope Composition ( $\delta^{15}\text{N}$ ) of Vehicle-Emitted $\text{NO}_x$ . <i>Environmental Science &amp; Technology</i> , 2015, 49, 2278-2285.	10.0	142
6	Tracing Atmospheric Nitrate Deposition in a Complex Semiarid Ecosystem Using $\delta^{17}\text{O}$ . <i>Environmental Science &amp; Technology</i> , 2004, 38, 2175-2181.	10.0	134
7	Determination of the Total Oxygen Isotopic Composition of Nitrate and the Calibration of a $\delta^{17}\text{O}$ Nitrate Reference Material. <i>Analytical Chemistry</i> , 2002, 74, 4989-4993.	6.5	122
8	Using $\delta^{15}\text{N}$ , $\delta^{17}\text{O}$ , and $\delta^{18}\text{O}$ To Determine Nitrate Sources in the Yellow River, China. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13412-13421.	10.0	117
9	Nitrogen Isotope Composition of Thermally Produced $\text{NO}_x$ from Various Fossil-Fuel Combustion Sources. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11363-11371.	10.0	105
10	Theoretical calculation of nitrogen isotope equilibrium exchange fractionation factors for various $\text{NO}_y$ molecules. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 164, 284-297.	3.9	100
11	Theoretical calculation of oxygen equilibrium isotope fractionation factors involving various $\text{NO}$ molecules, $\text{OH}$ , and $\text{H}_2\text{O}$ and its implications for isotope variations in atmospheric nitrate. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 191, 89-101.	3.9	94
12	Enhanced nitrogen loss from rivers through coupled nitrification-denitrification caused by suspended sediment. <i>Science of the Total Environment</i> , 2017, 579, 47-59.	8.0	93
13	Non-biological fractionation of stable Ca isotopes in soils of the Atacama Desert, Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1096-1110.	3.9	83
14	Nitrogen isotope exchange between $\text{NO}$ and $\text{NO}_2$ and its implications for $\delta^{15}\text{N}$ variations in tropospheric $\text{NO}_x$ and atmospheric nitrate. <i>Geophysical Research Letters</i> , 2016, 43, 440-448.	4.0	77
15	Sources and Transport of Nitrogen in Arid Urban Watersheds. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6211-6219.	10.0	66
16	Isotopic evidence for enhanced fossil fuel sources of aerosol ammonium in the urban atmosphere. <i>Environmental Pollution</i> , 2018, 238, 942-947.	7.5	65
17	Oxygen Isotope Dynamics of Atmospheric Nitrate and Its Precursor Molecules. <i>Advances in Isotope Geochemistry</i> , 2012, , 613-635.	1.4	65
18	Rainfall limit of the N cycle on Earth. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	64

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19	Isotopic evidence for the occurrence of biological nitrification and nitrogen deposition processing in forest canopies. <i>Global Change Biology</i> , 2015, 21, 4613-4626.	9.5	63
20	Stable Sulfur Isotopes Revealed a Major Role of Transition-Metal Ion-Catalyzed SO <sub>2</sub> Oxidation in Haze Episodes. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2626-2634.	10.0	63
21	Global patterns of nitrate isotope composition in rivers and adjacent aquifers reveal reactive nitrogen cascading. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	56
22	Source Apportionment of Aerosol Ammonium in an Ammonia-Rich Atmosphere: An Isotopic Study of Summer Clean and Hazy Days in Urban Beijing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5681-5689.	3.3	55
23	Oxygen and nitrogen isotopic composition of nitrate in commercial fertilizers, nitric acid, and reagent salts. <i>Isotopes in Environmental and Health Studies</i> , 2015, 51, 382-391.	1.0	54
24	Important contributions of non-fossil fuel nitrogen oxides emissions. <i>Nature Communications</i> , 2021, 12, 243.	12.8	54
25	High Atmospheric Nitrate Inputs and Nitrogen Turnover in Semi-arid Urban Catchments. <i>Ecosystems</i> , 2014, 17, 1309-1325.	3.4	46
26	The role of symmetry in the mass independent isotope effect in ozone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5493-5496.	7.1	44
27	NO <sub>x</sub> cycle and the tropospheric ozone isotope anomaly: an experimental investigation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4935-4953.	4.9	38
28	Geochemical, isotopic, and mineralogical constraints on atmospheric deposition in the hyper-arid Atacama Desert, Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 29-48.	3.9	37
29	Using <sup>17</sup> O to Investigate Nitrate Sources and Sinks in a Semi-Arid Groundwater System. <i>Environmental Science &amp; Technology</i> , 2012, 46, 745-751.	10.0	36
30	Nitrate, perchlorate, and iodate co-occur in coastal and inland deserts on Earth. <i>Chemical Geology</i> , 2016, 442, 174-186.	3.3	35
31	Summertime diurnal variations in the isotopic composition of atmospheric nitrogen dioxide at a small midwestern United States city. <i>Atmospheric Environment</i> , 2018, 179, 1-11.	4.1	34
32	Triple oxygen isotopic evidence for atmospheric nitrate and its application in source identification for river systems in the Qinghai-Tibetan Plateau. <i>Science of the Total Environment</i> , 2019, 688, 270-280.	8.0	31
33	Nitrous Oxide Production in an Eastern Corn Belt Soil: Sources and Redox Range. <i>Soil Science Society of America Journal</i> , 2009, 73, 1182-1191.	2.2	27
34	Beryllium-10 concentrations in the hyper-arid soils in the Atacama Desert, Chile: Implications for arid soil formation rates and El Niño driven changes in Pliocene precipitation. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 160, 227-242.	3.9	27
35	Role of biological soil crusts in affecting soil evolution and salt geochemistry in hyper-arid Atacama Desert, Chile. <i>Geoderma</i> , 2017, 307, 54-64.	5.1	26
36	Multiyear Measurements on <sup>17</sup> O of Stream Nitrate Indicate High Nitrate Production in a Temperate Forest. <i>Environmental Science &amp; Technology</i> , 2020, 54, 4231-4239.	10.0	25

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37	Investigating Source Contributions of Size-Integrated Aerosols Collected in Southern Ocean and Baring Head, New Zealand Using Sulfur Isotopes. <i>Geophysical Research Letters</i> , 2018, 45, 3717-3727.	4.0	24
38	The geochemical associations of nitrate and naturally formed perchlorate in the Mojave Desert, California, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 104, 136-147.	3.9	23
39	Assessing the Seasonal Dynamics of Nitrate and Sulfate Aerosols at the South Pole Utilizing Stable Isotopes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8161-8177.	3.3	21
40	Partitioning between atmospheric deposition and canopy microbial nitrification into throughfall nitrate fluxes in a Mediterranean forest. <i>Journal of Ecology</i> , 2020, 108, 626-640.	4.0	20
41	Quantifying the nitrogen isotope effects during photochemical equilibrium between NO and NO <sub>2</sub> : implications for δ <sup>15</sup> N in tropospheric reactive nitrogen. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9805-9819.	4.9	18
42	Formation Mechanisms and Source Apportionments of Airborne Nitrate Aerosols at a Himalayan-Tibetan Plateau Site: Insights from Nitrogen and Oxygen Isotopic Compositions. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12261-12271.	10.0	17
43	<i>Ab initio</i> study of nitrogen and position-specific oxygen kinetic isotope effects in the NO + O <sub>3</sub> reaction. <i>Journal of Chemical Physics</i> , 2016, 145, 224311.	3.0	16
44	Atmospheric deposition across the Atacama Desert, Chile: Compositions, source distributions, and interannual comparisons. <i>Chemical Geology</i> , 2019, 525, 435-446.	3.3	16
45	Reply to Comment on "Fossil Fuel Combustion-Related Emissions Dominate Atmospheric Ammonia Sources during Severe Haze Episodes: Evidence from <sup>15</sup> N-Stable Isotope in Size-Resolved Aerosol Ammonium". <i>Environmental Science &amp; Technology</i> , 2016, 50, 10767-10768.	10.0	13
46	Oxygen-17 anomaly in soil nitrate: A new precipitation proxy for desert landscapes. <i>Earth and Planetary Science Letters</i> , 2016, 438, 103-111.	4.4	11
47	Multiple isotope forensics of nitrate in a wild horse poisoning incident. <i>Forensic Science International</i> , 2010, 198, 103-109.	2.2	10
48	Nitrogen isotopes in nitrate aerosols collected in the remote marine boundary layer: Implications for nitrogen isotopic fractionations among atmospheric reactive nitrogen species. <i>Atmospheric Environment</i> , 2021, 245, 118028.	4.1	10
49	Laboratory and field characterization of visible to near-infrared spectral reflectance of nitrate minerals from the Atacama Desert, Chile, and implications for Mars. <i>American Mineralogist</i> , 2018, 103, 197-206.	1.9	9
50	The Dominant Role of the Water Column in Nitrogen Removal and N <sub>2</sub> O Emissions in Large Rivers. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
51	Purification procedure for <sup>15</sup> N, <sup>18</sup> O, <sup>17</sup> O analysis of nitrate. <i>International Journal of Environmental Analytical Chemistry</i> , 2010, 90, 586-590.	3.3	8
52	δ <sup>15</sup> N <sub>NO<sub>3</sub></sub> -RACM: incorporating δ <sup>15</sup> N into the Regional Atmospheric Chemistry Mechanism (RACM) for assessing the role photochemistry plays in controlling the isotopic composition of NO <sub>x</sub> , NO <sub>3</sub> , and atmospheric nitrate. <i>Geoscientific Model Development</i> , 2021, 14, 5001-5022.	3.6	7
53	Can stable oxygen and hydrogen isotopes from Australian subfossil Chironomus head capsules be used as proxies for past temperature change?. <i>Journal of Paleolimnology</i> , 2016, 56, 331-348.	1.6	4
54	Evaluating groundwater nitrate and other physicochemical parameters of the arid and semi-arid district of DI Khan by multivariate statistical analysis. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 911-920.	2.2	4

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55	Using multiple isotopic and geochemical tracers to disentangle the sources of baseflow and salinity in the headwaters of a large agricultural watershed. <i>Journal of Hydrology</i> , 2022, 609, 127769.	5.4	4
56	Mineral dust and fossil fuel combustion dominate sources of aerosol sulfate in urban Peru identified by sulfur stable isotopes and water-soluble ions. <i>Atmospheric Environment</i> , 2021, 260, 118482.	4.1	3
57	Modern Meteoric <sup>36</sup> Cl Deposition in the Atacama Desert, Chile. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089982.	4.0	0
58	Nitrate <sup>17</sup> O tracer method for determining gross nitrification rates. <i>Agriculture, Ecosystems and Environment</i> , 2021, 312, 107328.	5.3	0
59	Assessing the roles emission sources and atmospheric processes play in simulating <sup>15</sup> N of atmospheric NO <sub>x</sub> and NO <sub>3</sub> <sup>+</sup> using CMAQ (version 5.2.1) and SMOKE (version 4.6). <i>Geoscientific Model Development</i> , 2022, 15, 4239–4258.	3.6	0
60	Identifying NO <sub>x</sub> Sources in Arequipa, Peru Using Nitrogen Isotopes in Particulate Nitrate. <i>Frontiers in Environmental Science</i> , 0, 10, .	3.3	0