

# Joel Savarino

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133  
papers

5,177  
citations

40  
h-index

69  
g-index

184  
ext. papers

5,938  
ext. citations

7  
avg, IF

5.31  
L-index

#	Paper	IF	Citations
133	Hydrogeochemical and nitrate isotopic evolution of a semiarid mountainous basin aquifer of glacial-fluvial and paleolacustrine origin (Lake Titicaca, Bolivia): the effects of natural processes and anthropogenic activities. <i>Hydrogeology Journal</i> , <b>2022</b> , 30, 181-201	3.1	0
132	Robust Evidence of C, C, and N Analyses Indicating Fossil Fuel Sources for Total Carbon and Ammonium in Fine Aerosols in Seoul Megacity.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	1
131	Oxidation pathways and emission sources of atmospheric particulate nitrate in Seoul: based on $\delta^{15}\text{N}$ and $\delta^{17}\text{O}$ measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 5115-5125	6.8	2
130	New insights into the ~ 74 ka Toba eruption from sulfur isotopes of polar ice cores. <i>Climate of the Past</i> , <b>2021</b> , 17, 2119-2137	3.9	3
129	Regional Characteristics of Atmospheric Sulfate Formation in East Antarctica Imprinted on $^{17}\text{O}$ -Excess Signature. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033583	4.4	3
128	Isotopic evidence for acidity-driven enhancement of sulfate formation after SO emission control. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	6
127	Measurement report: Nitrogen isotopes ( $\delta^{15}\text{N}$ ) and first quantification of oxygen isotope anomalies ( $\delta^{17}\text{O}$ , $\delta^{18}\text{O}$ ) in atmospheric nitrogen dioxide. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 10477-10497	6.8	3
126	Overview of the French Operational Network for In Situ Observation of PM Chemical Composition and Sources in Urban Environments (CARA Program). <i>Atmosphere</i> , <b>2021</b> , 12, 207	2.7	8
125	Radar altimeter waveform simulations in Antarctica with the Snow Microwave Radiative Transfer Model (SMRT). <i>Remote Sensing of Environment</i> , <b>2021</b> , 263, 112534	13.2	2
124	Impacts of the photo-driven post-depositional processing on snow nitrate and its isotopes at Summit, Greenland: a model-based study. <i>Cryosphere</i> , <b>2021</b> , 15, 4207-4220	5.5	0
123	Stratospheric Ozone Changes From Explosive Tropical Volcanoes: Modeling and Ice Core Constraints. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD032290	4.4	6
122	Deposition, recycling, and archival of nitrate stable isotopes between the air-snow interface: comparison between Dronning Maud Land and Dome C, Antarctica. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5861-5885	6.8	6
121	Impact of exhaust emissions on chemical snowpack composition at Concordia Station, Antarctica. <i>Cryosphere</i> , <b>2020</b> , 14, 199-209	5.5	3
120	A compact incoherent broadband cavity-enhanced absorption spectrometer for trace detection of nitrogen oxides, iodine oxide and glyoxal at levels below parts per billion for field applications. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 4317-4331	4	4
119	Homogeneous sulfur isotope signature in East Antarctica and implication for sulfur source shifts through the last glacial-interglacial cycle. <i>Scientific Reports</i> , <b>2019</b> , 9, 12378	4.9	5
118	2600-years of stratospheric volcanism through sulfate isotopes. <i>Nature Communications</i> , <b>2019</b> , 10, 466	17.4	14
117	Intercomparison measurements of two $^{33}\text{S}$ -enriched sulfur isotope standards. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2019</b> , 34, 1263-1271	3.7	9

116	Multiple sources for tephra from AD 1259 volcanic signal in Antarctic ice cores. <i>Quaternary Science Reviews</i> , <b>2019</b> , 210, 164-174	3.9	8
115	Foliar uptake of atmospheric nitrate by two dominant subalpine plants: insights from in situ triple-isotope analysis. <i>New Phytologist</i> , <b>2019</b> , 223, 1784-1794	9.8	10
114	Assessing the Seasonal Dynamics of Nitrate and Sulfate Aerosols at the South Pole Utilizing Stable Isotopes. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 8161-8177	4.4	10
113	Tracing the Fate of Atmospheric Nitrate in a Subalpine Watershed Using $\delta$ . <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 5561-5570	10.3	17
112	A simple and reliable method reducing sulfate to sulfide for multiple sulfur isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , <b>2018</b> , 32, 333-341	2.2	6
111	Atmospheric nitrate export in streams along a montane to urban gradient. <i>Science of the Total Environment</i> , <b>2018</b> , 633, 329-340	10.2	13
110	SO <sub>2</sub> Oxidation Kinetics Leave a Consistent Isotopic Imprint on Volcanic Ice Core Sulfate. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 9801-9812	4.4	16
109	Photochemical box-modelling of volcanic SO <sub>2</sub> oxidation: isotopic constraints <b>2018</b> ,		2
108	Understanding mercury oxidation and air-snow exchange on the East Antarctic Plateau: A modeling study <b>2018</b> ,		1
107	Understanding mercury oxidation and air-snow exchange on the East Antarctic Plateau: a modeling study. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 15825-15840	6.8	10
106	Photochemical box modelling of volcanic SO <sub>2</sub> oxidation: isotopic constraints. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 17909-17931	6.8	11
105	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> , <b>2017</b> , 17, 3713-3727	6.8	26
104	New insights into the atmospheric mercury cycling in Central Antarctica and implications at a continental scale <b>2016</b> ,		1
103	The magnitude of the snow-sourced reactive nitrogen flux to the boundary layer in the Uintah Basin, Utah, USA. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 13837-13851	6.8	6
102	Inter-annual variability of surface ozone at coastal (Dumont d'Urville, 2004-2014) and inland (Concordia, 2007-2014) sites in East Antarctica. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 8053-8069	6.8	23
101	Air-snow exchange of nitrate: a modelling approach to investigate physicochemical processes in surface snow at Dome C, Antarctica. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12531-12550	6.8	12
100	Oxygen isotope mass balance of atmospheric nitrate at Dome C, East Antarctica, during the OPALE campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2659-2673	6.8	16
99	New insights into the atmospheric mercury cycling in central Antarctica and implications on a continental scale. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 8249-8264	6.8	26

98	Variability of sulfate signal in ice core records based on five replicate cores. <i>Climate of the Past</i> , <b>2016</b> , 12, 103-113	3.9	24
97	Inter-annual variability of surface ozone at coastal (Dumont d'Urville, 2004-2014) and inland (Concordia, 2007-2014) sites in East Antarctica <b>2016</b> ,		3
96	Acquisition of isotopic composition for surface snow in East Antarctica and the links to climatic parameters. <i>Cryosphere</i> , <b>2016</b> , 10, 837-852	5.5	43
95	Automated system measuring triple oxygen and nitrogen isotope ratios in nitrate using the bacterial method and N O decomposition by microwave discharge. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30, 2635-2644	2.2	10
94	Formaldehyde (HCHO) in air, snow, and interstitial air at Concordia (East Antarctic Plateau) in summer. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6689-6705	6.8	9
93	Atmospheric nitrogen oxides (NO and NO <sub>2</sub> ) at Dome C, East Antarctica, during the OPALE campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7859-7875	6.8	32
92	Isotopic effects of nitrate photochemistry in snow: a field study at Dome C, Antarctica. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11243-11256	6.8	21
91	Air-snow transfer of nitrate on the East Antarctic Plateau [Part 2: An isotopic model for the interpretation of deep ice-core records. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 12079-12113	6.8	20
90	Nitrogen isotopes in ice core nitrate linked to anthropogenic atmospheric acidity change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 5808-12	11.5	55
89	Large sulfur-isotope anomaly in nonvolcanic sulfate aerosol and its implications for the Archean atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 11979-83	11.5	30
88	Quantitative constraints on the <sup>17</sup> O-excess ( $\delta^{17}O$ ) signature of surface ozone: Ambient measurements from 50°N to 50°S using the nitrite-coated filter technique. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 135, 270-287	5.5	64
87	On the origin of the occasional spring nitrate peak in Greenland snow. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 13361-13376	6.8	11
86	Large mixing ratios of atmospheric nitrous acid (HONO) at Concordia (East Antarctic Plateau) in summer: a strong source from surface snow?. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 9963-9976	6.8	37
85	Comment on 'Climatic impact of the long-lasting Laki eruption: Inapplicability of mass-independent sulfur isotope composition measurements' by Schmidt et al.. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6629-6635	4.4	3
84	<sup>17</sup> O excess traces atmospheric nitrate in paleo-groundwater of the Saharan desert. <i>Biogeosciences</i> , <b>2014</b> , 11, 3149-3161	4.6	7
83	The growth of sublimation crystals and surface hoar on the Antarctic plateau. <i>Cryosphere</i> , <b>2014</b> , 8, 1205-1215	3.5	24
82	Laboratory study of nitrate photolysis in Antarctic snow. II. Isotopic effects and wavelength dependence. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 244306	3.9	37
81	Laboratory study of nitrate photolysis in Antarctic snow. I. Observed quantum yield, domain of photolysis, and secondary chemistry. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 244305	3.9	36

80	A new feature in the internal heavy isotope distribution in ozone. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 134301	3.9	4
79	Multi-isotope approach for the identification and characterisation of nitrate pollution sources in the Marano lagoon (Italy) and parts of its catchment area. <i>Applied Geochemistry</i> , <b>2013</b> , 34, 75-89	3.5	47
78	Determination of Nitrate Pollution Sources in the Marano Lagoon (Italy) by using a Combined Approach of Hydrochemical and Isotopic Techniques. <i>Procedia Earth and Planetary Science</i> , <b>2013</b> , 7, 758-761		6
77	Tales of volcanoes and El-Nino southern oscillations with the oxygen isotope anomaly of sulfate aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 17662-17667	11.5	21
76	Analysis of oxygen-17 excess of nitrate and sulfate at sub-micromole levels using the pyrolysis method. <i>Rapid Communications in Mass Spectrometry</i> , <b>2013</b> , 27, 2411-9	2.2	16
75	Isotopic composition of atmospheric nitrate in a tropical marine boundary layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 17668-73	11.5	59
74	Air-snow transfer of nitrate on the East Antarctic Plateau [Part 1: Isotopic evidence for a photolytically driven dynamic equilibrium in summer. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 6403-6419	6.8	73
73	The diurnal variability of atmospheric nitrogen oxides (NO and NO <sub>2</sub> ) above the Antarctic Plateau driven by atmospheric stability and snow emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 3045-3062	6.8	41
72	Two likely stratospheric volcanic eruptions in the 1450s C.E. found in a bipolar, subannually dated 800 year ice core record. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 7459-7466	4.4	32
71	Spatial and diurnal variability in reactive nitrogen oxide chemistry as reflected in the isotopic composition of atmospheric nitrate: Results from the CalNex 2010 field study. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 10,567-10,588	4.4	27
70	Seasonal variations in <sup>35</sup> S and <sup>17</sup> O of sulfate aerosols on the Antarctic plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 9444-9455	4.4	16
69	Oxygen isotope exchange with quartz during pyrolysis of silver sulfate and silver nitrate. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 2151-7	2.2	22
68	Sulfur isotope evidence of little or no stratospheric impact by the 1783 Laki volcanic eruption. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	22
67	An isotopic view on the connection between photolytic emissions of NO <sub>x</sub> from the Arctic snowpack and its oxidation by reactive halogens. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		22
66	Measurement of the <sup>17</sup> O-excess ( <sup>17</sup> O) of tropospheric ozone using a nitrite-coated filter. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 1219-31	2.2	37
65	Landscape-level nitrogen import and export in an ecosystem with complex terrain, Colorado Front Range. <i>Biogeochemistry</i> , <b>2012</b> , 109, 271-285	3.8	20
64	<sup>17</sup> O excess transfer during the NO <sub>2</sub> + O <sub>3</sub> → NO <sub>3</sub> + O <sub>2</sub> reaction. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 044311	3.9	12
63	The N, O, S Isotopes of Oxy-Anions in Ice Cores and Polar Environments. <i>Advances in Isotope Geochemistry</i> , <b>2012</b> , 835-864	1.2	8

62	Cosmogenic <sup>35</sup> S: A unique tracer to Antarctic atmospheric chemistry and the polar vortex. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	16
61	Simulation of the diurnal variations of the oxygen isotope anomaly ( $\delta^{17}\text{O}$ ) of reactive atmospheric species. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3653-3671	6.8	49
60	Snow optical properties at Dome C (Concordia), Antarctica; implications for snow emissions and snow chemistry of reactive nitrogen. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 9787-9801	6.8	79
59	Vertical profile of the specific surface area and density of the snow at Dome C and on a transect to Dumont D'Urville, Antarctica. Albedo calculations and comparison to remote sensing products. <i>Cryosphere</i> , <b>2011</b> , 5, 631-649	5.5	42
58	Microorganisms in dry polar snow are involved in the exchanges of reactive nitrogen species with the atmosphere. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 714-9	10.3	54
57	Cold decade (AD 1810–1819) caused by Tambora (1815) and another (1809) stratospheric volcanic eruption. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	99
56	Mass-dependent isotopic fractionation in ozone produced by electrolysis. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5226-32	7.8	3
55	Comprehensive isotopic composition of atmospheric nitrate in the Atlantic Ocean boundary layer from 65°S to 79°N. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		121
54	Year-round record of surface ozone at coastal (Dumont d'Urville) and inland (Concordia) sites in East Antarctica. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		63
53	Photolysis imprint in the nitrate stable isotope signal in snow and atmosphere of East Antarctica and implications for reactive nitrogen cycling. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 8681-8696	6.8	119
52	Determination of intramolecular isotope distribution of ozone by oxidation reaction with silver metal. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		25
51	Anomalous sulfur isotope compositions of volcanic sulfate over the last millennium in Antarctic ice cores. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		70
50	Tracing the origin and fate of NO <sub>x</sub> in the Arctic atmosphere using stable isotopes in nitrate. <i>Science</i> , <b>2008</b> , 322, 730-2	33.3	157
49	The NO+O <sub>3</sub> reaction: a triple oxygen isotope perspective on the reaction dynamics and atmospheric implications for the transfer of the ozone isotope anomaly. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 194303	3.9	57
48	Precipitation of salts in freezing seawater and ozone depletion events: a status report. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 7317-7324	6.8	32
47	A record of ozone variability in South Pole Antarctic snow: Role of nitrate oxygen isotopes. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		46
46	Signature of Arctic surface ozone depletion events in the isotope anomaly ( $\delta^{17}\text{O}$ ) of atmospheric nitrate. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 1451-1469	6.8	77
45	Nitrogen and oxygen isotopic constraints on the origin of atmospheric nitrate in coastal Antarctica. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 1925-1945	6.8	154

44	An overview of snow photochemistry: evidence, mechanisms and impacts. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 4329-4373	6.8	459
43	Mass-independent sulfur isotopic compositions in stratospheric volcanic eruptions. <i>Science</i> , <b>2007</b> , 315, 84-7	33.3	119
42	Major influence of BrO on the NO <sub>x</sub> and nitrate budgets in the Arctic spring, inferred from <sup>17</sup> O(NO <sub>3</sub> <sup>-</sup> ) measurements during ozone depletion events. <i>Environmental Chemistry</i> , <b>2007</b> , 4, 238	3.2	10
41	Isotopic constraints on non-photochemical sulfate production in the Arctic winter. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	36
40	Sulfate formation in sea-salt aerosols: Constraints from oxygen isotopes. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		265
39	Impact of preindustrial biomass-burning emissions on the oxidation pathways of tropospheric sulfur and nitrogen. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		68
38	Contributions of an ancient evaporitic-type reservoir to subglacial Lake Vostok chemistry. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 222, 751-765	5.3	29
37	UV induced mass-independent sulfur isotope fractionation in stratospheric volcanic sulfate. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	123
36	Reply to comment by D. Krankowsky et al. on Low-pressure dependency of the isotopic enrichment in ozone: Stratospheric implications by S. K. Bhattacharya et al.. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		1
35	East Antarctic ice core sulfur isotope measurements over a complete glacial-interglacial cycle. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		45
34	Evidence from sulfate mass independent oxygen isotopic compositions of dramatic changes in atmospheric oxidation following massive volcanic eruptions. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		49
33	Sulfur ( <sup>32</sup> S, <sup>33</sup> S, <sup>34</sup> S, <sup>36</sup> S) and oxygen ( <sup>16</sup> O, <sup>17</sup> O, <sup>18</sup> O) isotopic ratios of primary sulfate produced from combustion processes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 193-200	3.3	34
32	Sulfur ( <sup>32</sup> S, <sup>33</sup> S, <sup>34</sup> S, <sup>36</sup> S) and oxygen ( <sup>16</sup> O, <sup>17</sup> O, <sup>18</sup> O) isotopic ratios of primary sulfate produced from combustion processes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2002</b> , 54, 193-200	3.3	15
31	Determination of the total oxygen isotopic composition of nitrate and the calibration of a delta <sup>17</sup> O nitrate reference material. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 4989-93	7.8	99
30	Climate driven changes in the oxidation pathways of atmospheric sulfur. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 30-1-30-4	4.9	60
29	Low-pressure dependency of the isotopic enrichment in ozone: Stratospheric implications. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACH 4-1-ACH 4-10		11
28	Mass independent oxygen isotopic composition of atmospheric sulfate: Origin and implications for the present and past atmosphere of Earth and Mars. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1783-1786	4.9	39
27	Observation of wavelength-sensitive mass-independent sulfur isotope effects during SO <sub>2</sub> photolysis: Implications for the early atmosphere. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 32829-32839		34 <sup>1</sup>

26	Mass-independent isotopic compositions in terrestrial and extraterrestrial solids and their applications. <i>Accounts of Chemical Research</i> , <b>2001</b> , 34, 645-52	24.3	45
25	Sulfur and oxygen isotope analysis of sulfate at micromole levels using a pyrolysis technique in a continuous flow system. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 4457-62	7.8	56
24	Evidence of atmospheric sulphur in the martian regolith from sulphur isotopes in meteorites. <i>Nature</i> , <b>2000</b> , 404, 50-2	50.4	231
23	Laboratory oxygen isotopic study of sulfur (IV) oxidation: Origin of the mass-independent oxygen isotopic anomaly in atmospheric sulfates and sulfate mineral deposits on Earth. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 29079-29088		113
22	A new class of oxygen isotopic fractionation in photodissociation of carbon dioxide: Potential Implications for atmospheres of Mars and Earth. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 1459-1462	4.9	58
21	Analytical procedure to determine both $\delta^{18}\text{O}$ and $\delta^{17}\text{O}$ of $\text{H}_2\text{O}_2$ in natural water and first measurements. <i>Atmospheric Environment</i> , <b>1999</b> , 33, 3683-3690	5.3	90
20	Mass-Independent Oxygen Isotope ( $^{16}\text{O}$ , $^{17}\text{O}$ , $^{18}\text{O}$ ) Fractionation Found in Hx, Ox Reactions. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 9221-9229	2.8	44
19	High northern latitude forest fires and vegetation emissions over the last millennium inferred from the chemistry of a central Greenland ice core. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 8267-8279		65
18	Sulfur-containing species (methanesulfonate and $\text{SO}_4$ ) over the last climatic cycle in the Greenland Ice Core Project (central Greenland) ice core. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 26663-26679		79
17	Short-term variations of Pb, Cd, Zn and Cu in recent Greenland snow. <i>Atmospheric Environment</i> , <b>1994</b> , 28, 1731-1737	5.3	22
16	Snow optical properties at Dome C, Antarctica [Implications for snow emissions and snow chemistry of reactive nitrogen		3
15	The diurnal variability of atmospheric nitrogen oxides ( $\text{NO}$ and $\text{NO}_2$ ) above the Antarctic Plateau driven by atmospheric stability and snow emissions		3
14	Air-snow transfer of nitrate on the East Antarctic Plateau [Part 1: Isotopic evidence for a photolytically driven dynamic equilibrium		4
13	Atmospheric nitrogen oxides ( $\text{NO}$ and $\text{NO}_2$ ) at Dome C, East Antarctica, during the OPALE campaign		6
12	Formaldehyde (HCHO) in air, snow and interstitial air at Concordia (East Antarctic plateau) in summer		4
11	Isotopic effects of nitrate photochemistry in snow: a field study at Dome C, Antarctica		4
10	Oxygen isotope mass balance of atmospheric nitrate at Dome C, East Antarctica, during the OPALE campaign		2
9	Air-snow transfer of nitrate on the East Antarctic plateau [Part 2: An isotopic model for the interpretation of deep ice-core records		2



8	Nitrogen and oxygen isotopic constraints on the origin of atmospheric nitrate in coastal Antarctica	7
7	An overview of snow photochemistry: evidence, mechanisms and impacts	13
6	Photolytic control of the nitrate stable isotope signal in snow and atmosphere of East Antarctica and implications for reactive nitrogen cycling	1
5	Variability of sulfate signal in ice-core records based on five replicate cores	1
4	Vertical profiles of the specific surface area of the snow at Dome C, Antarctica	9
3	Acquisition of isotopic composition for surface snow in East Antarctica and the links to climatic parameters	1
2	Large mixing ratios of atmospheric nitrous acid (HONO) at Concordia (East Antarctic plateau) in summer: a strong source from surface snow?	1
1	New estimation of the snow-source on the Antarctic Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> ,e2021JD035062	4-4 2