

Benjamin A Nault

List of Publications by Year in descending order

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46
papers

1,953
citations

257101

24
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264894

42
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all docs

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docs citations

98
times ranked

2600
citing authors

#	ARTICLE	IF	CITATIONS
1	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E761-E790.	1.7	39
2	A systematic re-evaluation of methods for quantification of bulk particle-phase organic nitrates using real-time aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 459-483.	1.2	15
3	Field observational constraints on the controllers in glyoxal (CHOCHO) reactive uptake to aerosol. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 805-821.	1.9	5
4	Evaluation of Secondary Organic Aerosol (SOA) Simulations for Seoul, Korea. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	10
5	Limitations in representation of physical processes prevent successful simulation of PM _{2.5} during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7933-7958.	1.9	17
6	Quantification and source characterization of volatile organic compounds from exercising and application of chlorine-based cleaning products in a university athletic center. <i>Indoor Air</i> , 2021, 31, 1323-1339.	2.0	32
7	Airborne extractive electrospray mass spectrometry measurements of the chemical composition of organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1545-1559.	1.2	20
8	Aerosol pH indicator and organosulfate detectability from aerosol mass spectrometry measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2237-2260.	1.2	12
9	HCOOH in the Remote Atmosphere: Constraints from Atmospheric Tomography (ATom) Airborne Observations. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1436-1454.	1.2	13
10	The importance of size ranges in aerosol instrument intercomparisons: a case study for the Atmospheric Tomography Mission. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3631-3655.	1.2	34
11	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	32
12	Sizing response of the Ultra-High Sensitivity Aerosol Spectrometer (UHSAS) and Laser Aerosol Spectrometer (LAS) to changes in submicron aerosol composition and refractive index. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4517-4542.	1.2	28
13	Impact of stratospheric air and surface emissions on tropospheric nitrous oxide during ATom. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11113-11132.	1.9	5
14	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	1.9	60
15	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15023-15063.	1.9	15
16	Machine Learning Uncovers Aerosol Size Information From Chemistry and Meteorology to Quantify Potential Cloud-Forming Particles. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	7
17	Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM _{2.5}): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16775-16791.	1.9	18
18	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	51

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19	Contribution of Organic Nitrates to Organic Aerosol over South Korea during KORUS-AQ. <i>Environmental Science & Technology</i> , 2021, 55, 16326-16338.	4.6	8
20	Characterization of organic aerosol across the global remote troposphere: a comparison of ATom measurements and global chemistry models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4607-4635.	1.9	66
21	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6455-6478.	1.9	18
22	Ambient Quantification and Size Distributions for Organic Aerosol in Aerosol Mass Spectrometers with the New Capture Vaporizer. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 676-689.	1.2	10
23	Quantitative detection of iodine in the stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1860-1866.	3.3	61
24	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4505-4510.	3.3	118
25	Investigation of factors controlling PM _{2.5} variability across the South Korean Peninsula during KORUS-AQ. <i>Elementa</i> , 2020, 8, .	1.1	44
26	An evaluation of global organic aerosol schemes using airborne observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2637-2665.	1.9	90
27	Interferences with aerosol acidity quantification due to gas-phase ammonia uptake onto acidic sulfate filter samples. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6193-6213.	1.2	6
28	Aerosol size distributions during the Atmospheric Tomography Mission (ATom): methods, uncertainties, and data products. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3081-3099.	1.2	59
29	A simplified parameterization of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) for global chemistry and climate models: a case study with GEOS-Chem v11-02-rc. <i>Geoscientific Model Development</i> , 2019, 12, 2983-3000.	1.3	22
30	A large source of cloud condensation nuclei from new particle formation in the tropics. <i>Nature</i> , 2019, 574, 399-403.	13.7	135
31	Towards a satellite formaldehyde "in situ hybrid estimate for organic aerosol abundance. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2765-2785.	1.9	15
32	The potential role of methanesulfonic acid (MSA) in aerosol formation and growth and the associated radiative forcings. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3137-3160.	1.9	86
33	Atmospheric Acetaldehyde: Importance of Air-Sea Exchange and a Missing Source in the Remote Troposphere. <i>Geophysical Research Letters</i> , 2019, 46, 5601-5613.	1.5	41
34	Integration of airborne and ground observations of nitril chloride in the Seoul metropolitan area and the implications on regional oxidation capacity during KORUS-AQ 2016. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12779-12795.	1.9	24
35	Evaluation of the New Capture Vaporizer for Aerosol Mass Spectrometers (AMS): Elemental Composition and Source Apportionment of Organic Aerosols (OA). <i>ACS Earth and Space Chemistry</i> , 2018, 2, 410-421.	1.2	24
36	Evaluation of the new capture vaporizer for aerosol mass spectrometers: Characterization of organic aerosol mass spectra. <i>Aerosol Science and Technology</i> , 2018, 52, 725-739.	1.5	25

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37	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14493-14510.	1.9	18
38	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,527.	1.2	24
39	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17769-17800.	1.9	105
40	Strong Contrast in Remote Black Carbon Aerosol Loadings Between the Atlantic and Pacific Basins. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,386.	1.2	22
41	Lightning NO _x Emissions: Reconciling Measured and Modeled Estimates With Updated NO _x Chemistry. <i>Geophysical Research Letters</i> , 2017, 44, 9479-9488.	1.5	56
42	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4272-4295.	1.2	24
43	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEAC ⁴ RS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5969-5991.	1.9	173
44	Observational Constraints on the Oxidation of NO _x in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1468-1478.	1.1	23
45	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1281-1309.	1.7	165
46	Measurements of CH ₃ O ₂ and NO ₂ in the upper troposphere. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 987-997.	1.1	15