

Jennifer G Murphy

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

4,968
citations

66343

42
h-index

118850

62
g-index

148
all docs

148
docs citations

148
times ranked

5826
citing authors

#	ARTICLE	IF	CITATIONS
1	Field inter-comparison of eleven atmospheric ammonia measurement techniques. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 91-112.	3.1	215
2	Isoprene emissions in Africa inferred from OMI observations of formaldehyde columns. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6219-6235.	4.9	166
3	The weekend effect within and downwind of Sacramento – Part 1: Observations of ozone, nitrogen oxides, and VOC reactivity. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5327-5339.	4.9	161
4	The complex chemical effects of COVID-19 shutdowns on air quality. <i>Nature Chemistry</i> , 2020, 12, 777-779.	13.6	154
5	Overview paper: New insights into aerosol and climate in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2527-2560.	4.9	134
6	Understanding ozone–meteorology correlations: A role for dry deposition. <i>Geophysical Research Letters</i> , 2017, 44, 2922-2931.	4.0	116
7	Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHT. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,155.	3.3	111
8	Improved Characterization of Gas–Particle Partitioning for Per- and Polyfluoroalkyl Substances in the Atmosphere Using Annular Diffusion Denuder Samplers. <i>Environmental Science & Technology</i> , 2012, 46, 7199-7206.	10.0	105
9	Characterizing a Quantum Cascade Tunable Infrared Laser Differential Absorption Spectrometer (QC-TILDAS) for measurements of atmospheric ammonia. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 397-406.	3.1	97
10	Total Peroxy Nitrates (TPNs) in the atmosphere: the Thermal Dissociation-Laser Induced Fluorescence (TD-LIF) technique and comparisons to speciated PAN measurements. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 593-607.	3.1	95
11	Chemical and aerosol characterisation of the troposphere over West Africa during the monsoon period as part of AMMA. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7575-7601.	4.9	93
12	Size distribution of alkyl amines in continental particulate matter and their online detection in the gas and particle phase. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4319-4332.	4.9	89
13	Nocturnal loss and daytime source of nitrous acid through reactive uptake and displacement. <i>Nature Geoscience</i> , 2015, 8, 55-60.	12.9	89
14	The influence of gas-particle partitioning and surface-atmosphere exchange on ammonia during BAQS-Met. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 133-145.	4.9	88
15	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8712-8729.	3.3	86
16	Secondary organic aerosol from biogenic VOCs over West Africa during AMMA. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3841-3850.	4.9	85
17	Long term changes in nitrogen oxides and volatile organic compounds in Toronto and the challenges facing local ozone control. <i>Atmospheric Environment</i> , 2009, 43, 3407-3415.	4.1	81
18	Contribution of Arctic seabird-colony ammonia to atmospheric particles and cloud-albedo radiative effect. <i>Nature Communications</i> , 2016, 7, 13444.	12.8	81

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19	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO _x and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019, 46, 4971-4979.	4.0	80
20	Measurements of volatile organic compounds over West Africa. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5281-5294.	4.9	78
21	Observations of the diurnal and seasonal trends in nitrogen oxides in the western Sierra Nevada. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5321-5338.	4.9	73
22	Characterization and optimization of an online system for the simultaneous measurement of atmospheric water-soluble constituents in the gas and particle phases. <i>Journal of Environmental Monitoring</i> , 2012, 14, 1872.	2.1	72
23	Observational constraints on particle acidity using measurements and modelling of particles and gases. <i>Faraday Discussions</i> , 2017, 200, 379-395.	3.2	72
24	An investigation of ammonia and inorganic particulate matter in California during the CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1883-1902.	3.3	69
25	Dimethyl sulfide in the summertime Arctic atmosphere: measurements and source sensitivity simulations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6665-6680.	4.9	66
26	Gas Phase Oxidation of Monoethanolamine (MEA) with OH Radical and Ozone: Kinetics, Products, and Particles. <i>Environmental Science & Technology</i> , 2013, 47, 6377-6383.	10.0	65
27	Experimental and Theoretical Understanding of the Gas Phase Oxidation of Atmospheric Amides with OH Radicals: Kinetics, Products, and Mechanisms. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4298-4308.	2.5	65
28	Photochemical Production and Release of Gaseous NO ₂ from Nitrate-Doped Water Ice. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8520-8525.	2.5	64
29	Kinetics of NO and NO ₂ Evolution from Illuminated Frozen Nitrate Solutions. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3578-3583.	2.5	63
30	HO ₂ observations over West Africa during AMMA: impact of isoprene and NO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9415-9429.	4.9	59
31	Evidence for a nitrous acid (HONO) reservoir at the ground surface in Bakersfield, CA, during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9093-9106.	3.3	59
32	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4955-4978.	4.9	59
33	Impact of mesoscale vegetation heterogeneities on the dynamical and thermodynamic properties of the planetary boundary layer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
34	Insights into Secondary Organic Aerosol Formation Mechanisms from Measured Gas/Particle Partitioning of Specific Organic Tracer Compounds. <i>Environmental Science & Technology</i> , 2013, 47, 3781-3787.	10.0	58
35	Methane fluxes measured by eddy covariance and static chamber techniques at a temperate forest in central Ontario, Canada. <i>Biogeosciences</i> , 2013, 10, 4371-4382.	3.3	58
36	Ammonia in the summertime Arctic marine boundary layer: sources, sinks, and implications. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1937-1953.	4.9	57

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37	The role of dew as a night-time reservoir and morning source for atmospheric ammonia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7435-7449.	4.9	54
38	Organic Peroxides and Sulfur Dioxide in Aerosol: Source of Particulate Sulfate. <i>Environmental Science & Technology</i> , 2019, 53, 10695-10704.	10.0	53
39	Improved model of isoprene emissions in Africa using Ozone Monitoring Instrument (OMI) satellite observations of formaldehyde: implications for oxidants and particulate matter. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7693-7703.	4.9	52
40	Formation and growth of ultrafine particles from secondary sources in Bakersfield, California. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	51
41	Fine-scale simulation of ammonium and nitrate over the South Coast Air Basin and San Joaquin Valley of California during CalNex-2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3600-3614.	3.3	51
42	Measurements of the sum of HO ₂ and CH ₃ O ₂ in the remote troposphere. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 377-384.	4.9	49
43	Ion chromatographic separation and quantitation of alkyl methylamines and ethylamines in atmospheric gas and particulate matter using preconcentration and suppressed conductivity detection. <i>Journal of Chromatography A</i> , 2012, 1252, 74-83.	3.7	49
44	Gas Phase Oxidation of Nicotine by OH Radicals: Kinetics, Mechanisms, and Formation of HNCO. <i>Environmental Science and Technology Letters</i> , 2016, 3, 327-331.	8.7	49
45	Ice nucleating particles in the marine boundary layer in the Canadian Arctic during summer 2014. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1027-1039.	4.9	48
46	On the gas-particle partitioning of soluble organic aerosol in two urban atmospheres with contrasting emissions: 2. Gas and particle phase formic acid. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	47
47	Laboratory Investigation of Renoxification from the Photolysis of Inorganic Particulate Nitrate. <i>Environmental Science & Technology</i> , 2021, 55, 854-861.	10.0	46
48	Organic Condensation and Particle Growth to CCN Sizes in the Summertime Marine Arctic Is Driven by Materials More Semivolatile Than at Continental Sites. <i>Geophysical Research Letters</i> , 2017, 44, 10,725.	4.0	45
49	Gas-Phase Mechanisms of the Reactions of Reduced Organic Nitrogen Compounds with OH Radicals. <i>Environmental Science & Technology</i> , 2016, 50, 11723-11734.	10.0	41
50	Solubility and reactivity of HNCO in water: insights into HNCO's fate in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 703-714.	4.9	39
51	Factors controlling the distribution of ozone in the West African lower troposphere during the AMMA (African Monsoon Multidisciplinary Analysis) wet season campaign. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6135-6155.	4.9	38
52	The sensitivity of PM _{2.5} acidity to meteorological parameters and chemical composition changes: 10-year records from six Canadian monitoring sites. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9309-9320.	4.9	38
53	Arctic marine secondary organic aerosol contributes significantly to summertime particle size distributions in the Canadian Arctic Archipelago. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2787-2812.	4.9	38
54	Impact of lake breezes on ozone and nitrogen oxides in the Greater Toronto Area. <i>Atmospheric Environment</i> , 2015, 109, 52-60.	4.1	37

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55	Observations of reactive nitrogen oxide fluxes by eddy covariance above two midlatitude North American mixed hardwood forests. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2939-2957.	4.9	36
56	Soil-atmosphere exchange of ammonia in a non-fertilized grassland: measured emission potentials and inferred fluxes. <i>Biogeosciences</i> , 2014, 11, 5675-5686.	3.3	35
57	Airborne and ground-based observations of ammonium-nitrate-dominated aerosols in a shallow boundary layer during intense winter pollution episodes in northern Utah. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17259-17276.	4.9	33
58	On the contribution of nocturnal heterogeneous reactive nitrogen chemistry to particulate matter formation during wintertime pollution events in Northern Utah. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9287-9308.	4.9	33
59	The impacts of precursor reduction and meteorology on ground-level ozone in the Greater Toronto Area. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8197-8207.	4.9	32
60	Inverting the maximum carboxylation rate (V_{cmax}) from the sunlit leaf photosynthesis rate derived from measured light response curves at tower flux sites. <i>Agricultural and Forest Meteorology</i> , 2017, 236, 48-66.	4.8	31
61	Contributions of natural and anthropogenic sources to ambient ammonia in the Athabasca Oil Sands and north-western Canada. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2011-2034.	4.9	31
62	The Mechanisms Responsible for the Interactions among Oxalate, pH, and Fe Dissolution in $PM_{2.5}$. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2259-2265.	2.7	31
63	Isocyanic acid (HNCO) and its fate in the atmosphere: a review. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 793-808.	3.5	31
64	Atmospheric Evolution of Sulfur Emissions from Kilauea: Real-Time Measurements of Oxidation, Dilution, and Neutralization within a Volcanic Plume. <i>Environmental Science & Technology</i> , 2015, 49, 4129-4137.	10.0	29
65	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033475.	3.3	28
66	An Atmospheric Constraint on the NO_2 Dependence of Daytime Near-Surface Nitrous Acid (HONO). <i>Environmental Science & Technology</i> , 2015, 49, 12774-12781.	10.0	26
67	Tall Tower Vertical Profiles and Diurnal Trends of Ammonia in the Colorado Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,468.	3.3	26
68	High gas-phase mixing ratios of formic and acetic acid in the High Arctic. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10237-10254.	4.9	25
69	Measurements and quality control of ammonia eddy covariance fluxes: a new strategy for high-frequency attenuation correction. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6059-6078.	3.1	24
70	Photochemistry of NO_2 in Earth's Stratosphere: Constraints from Observations. <i>Chemical Reviews</i> , 2003, 103, 4985-4998.	47.7	23
71	Isoprene emissions modelling for West Africa: MEGAN model evaluation and sensitivity analysis. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8453-8467.	4.9	22
72	Atmospheric composition of West Africa: highlights from the AMMA international program. <i>Atmospheric Science Letters</i> , 2011, 12, 13-18.	1.9	21

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73	Biases in long-term NO ₂ averages inferred from satellite observations due to cloud selection criteria. <i>Remote Sensing of Environment</i> , 2012, 124, 210-216.	11.0	20
74	Net ecosystem exchange of an uneven-aged managed forest in central Ontario, and the impact of a spring heat wave event. <i>Agricultural and Forest Meteorology</i> , 2014, 198-199, 105-115.	4.8	19
75	Measurements and modeling of the inorganic chemical composition of fine particulate matter and associated precursor gases in California's San Joaquin Valley during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6853-6866.	3.3	18
76	Warning diagnostics for inductively coupled plasma-mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 311-326.	2.9	16
77	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1777-1803.	3.3	15
78	Wintertime spatial distribution of ammonia and its emission sources in the Great Salt Lake region. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15691-15709.	4.9	15
79	Observations of Acyl Peroxy Nitrates During the Front Range Air Pollution and Photochemistry Experiment (FRAPP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,416.	3.3	14
80	Modeling the diurnal variability of agricultural ammonia in Bakersfield, California, during the CalNex campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2721-2739.	4.9	14
81	Evidence for the Importance of Semivolatile Organic Ammonium Salts in Ambient Particulate Matter. <i>Environmental Science & Technology</i> , 2019, 53, 108-116.	10.0	14
82	Coupled Air Quality and Boundary-Layer Meteorology in Western U.S. Basins during Winter: Design and Rationale for a Comprehensive Study. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E2012-E2033.	3.3	14
83	The effect of meteorological and chemical factors on the agreement between observations and predictions of fine aerosol composition in southwestern Ontario during BAQS-Met. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3195-3210.	4.9	13
84	Characterization of the $\delta^{13}\text{C}$ signatures of anthropogenic CO ₂ emissions in the Greater Toronto Area, Canada. <i>Applied Geochemistry</i> , 2017, 83, 171-180.	3.0	13
85	High-resolution quantification of atmospheric CO ₂ mixing ratios in the Greater Toronto Area, Canada. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3387-3401.	4.9	12
86	Exploring the Global Importance of Atmospheric Ammonia Oxidation. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1674-1685.	2.7	11
87	Nitrate Photolysis in Salty Snow. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7902-7908.	2.5	10
88	The role of coarse aerosol particles as a sink of HNO ₃ in wintertime pollution events in the Salt Lake Valley. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8111-8126.	4.9	9
89	Kinetics and Products of the Aqueous Phase Oxidation of Triethylamine by OH. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1889-1895.	2.7	8
90	Simple Framework to Quantify the Contributions from Different Factors Influencing Aerosol pH Based on NH ₄ ⁺ Phase-Partitioning Equilibrium. <i>Environmental Science & Technology</i> , 2021, 55, 10310-10319.	10.0	8

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91	Summertime Soil-Atmosphere Ammonia Exchange in the Colorado Rocky Mountain Front Range Pine Forest. <i>Soil Systems</i> , 2019, 3, 15.	2.6	7
92	Kinetics of the oxidation of ammonia and amines with hydroxyl radicals in the aqueous phase. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1906-1913.	3.5	7
93	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. <i>Elementa</i> , 2019, 7, .	3.2	6
94	FORest Canopy Atmosphere Transfer (FORCAST) 2.0: model updates and evaluation with observations at a mixed forest site. <i>Geoscientific Model Development</i> , 2021, 14, 6309-6329.	3.6	4
95	Towards understanding the variability in source contribution of CO ₂ using high-resolution simulations of atmospheric $\delta^{13}\text{C}$ signatures in the Greater Toronto Area, Canada. <i>Atmospheric Environment</i> , 2019, 214, 116877.	4.1	2
96	Atmospheric Ammonia: Measurements, Modeling, and Chemistry—Climate Interactions. , 2019, , 1-82.		2
97	The air we breathe: Past, present, and future: general discussion. <i>Faraday Discussions</i> , 2017, 200, 501-527.	3.2	1
98	Hydrogen chloride (HCl) at ground sites during CalNex 2010 and insight into its thermodynamic properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, 1-16.	3.3	1