Erin E Mcduffie

List of Publications by Citations

35 papers	741 citations	17 h-index	26 g-index
57 ext. papers	1,082 ext. citations	5.9 avg, IF	3.68 L-index

#	Paper	IF	Citations
35	Heterogeneous N2O5 Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 4345-4372	4.4	69
34	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 8712-8729	4.4	62
33	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7771-7796	4.4	57
32	A global anthropogenic emission inventory of atmospheric pollutants from sector- and fuel-specific sources (1970–2017): an application of the Community Emissions Data System (CEDS). *Earth System Science Data*, **2020**, 12, 3413-3442	10.5	50
31	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NOx and VOC Control as Mitigation Strategies. *Geophysical Research Letters*, **2019**, 46, 4971-4979	4.9	45
30	NOx Lifetime and NOy Partitioning During WINTER. *Journal of Geophysical Research D: Atmospheres* , **2018**, 123, 9813-9827	4.4	32
29	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,368	4.4	32
28	Source sector and fuel contributions to ambient PM and attributable mortality across multiple spatial scales. *Nature Communications*, **2021**, 12, 3594	17.4	31
27	Flight Deployment of a High-Resolution Time-of-Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7670	4.4	25
26	ClNO2 Yields From Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of the Current Parameterization. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 12,994	4.4	24
25	Top-Down Estimates of NOx and CO Emissions From Washington, D.C.-Baltimore During the WINTER Campaign. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7705-7724	4.4	24
24	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coal-Fired Power Plants. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 11225-11237	4.4	21
23	Anthropogenic control over wintertime oxidation of atmospheric pollutants. *Geophysical Research Letters*, **2019**, 46, 14826-14835	4.9	20
22	Effects of Anthropogenic Chlorine on PM and Ozone Air Quality in China. *Environmental Science & Technology*, **2020**, 54, 9908-9916	10.3	18
21	Tall Tower Vertical Profiles and Diurnal Trends of Ammonia in the Colorado Front Range. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 12,468	4.4	18
20	Airborne and ground-based observations of ammonium-nitrate-dominated aerosols in a shallow boundary layer during intense winter pollution episodes in northern Utah. *Atmospheric Chemistry and Physics*, **2018**, 18, 17259-17276	6.8	18
19	Tropospheric sources and sinks of gas-phase acids in the Colorado Front Range. *Atmospheric Chemistry and Physics*, **2018**, 18, 12315-12327	6.8	18

18	Cavity enhanced spectroscopy for measurement of nitrogen oxides in the Anthropocene: results from the Seoul tower during MAPS 2015. *Faraday Discussions*, **2017**, 200, 529-557	3.6	17
17	On the contribution of nocturnal heterogeneous reactive nitrogen chemistry to particulate matter formation during wintertime pollution events in Northern Utah. *Atmospheric Chemistry and Physics*, **2019**, 19, 9287-9308	6.8	17
16	Effects of COVID-19 lockdowns on fine particulate matter concentrations. *Science Advances*, **2021**, 7,	14.3	17
15	Quantifying TOLNet Ozone Lidar Accuracy during the 2014 DISCOVER-AQ and FRAPP Campaigns. *Atmospheric Measurement Techniques*, **2017**, 10, 3865-3876	4	15
14	Higher measured than modeled ozone production at increased NO_{<i>x</i>} levels in the Colorado Front Range. *Atmospheric Chemistry and Physics*, **2017**, 17, 11273-11292	6.8	15
13	Wintertime Overnight NOx Removal in a Southeastern United States Coal-fired Power Plant Plume: A Model for Understanding Winter NOx Processing and its Implications. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 1412-1425	4.4	13
12	Observations of Acyl Peroxy Nitrates During the Front Range Air Pollution and Photochemistry periment (FRAPP) *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 12,416-12,432	4.4	11
11	Sulfate and Carboxylate Suppress the Formation of ClNO2 at Atmospheric Interfaces. *ACS Earth and Space Chemistry*, **2019**, 3, 1987-1997	3.2	11
10	Wintertime spatial distribution of ammonia and its emission sources in the Great Salt Lake region. *Atmospheric Chemistry and Physics*, **2019**, 19, 15691-15709	6.8	11
9	Observational Constraints on the Formation of Cl2 From the Reactive Uptake of ClNO2 on Aerosols in the Polluted Marine Boundary Layer. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 8851-8869	4.4	10
8	Rates of Wintertime Atmospheric SO2 Oxidation based on Aircraft Observations during Clear-Sky Conditions over the Eastern United States. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 6630-6649	4.4	8
7	Long-term observational constraints of organic aerosol dependence on inorganic species in the southeast US. *Atmospheric Chemistry and Physics*, **2020**, 20, 13091-13107	6.8	5
6	Factors controlling marine aerosol size distributions and their climate effects over the northwest Atlantic Ocean region. *Atmospheric Chemistry and Physics*, **2021**, 21, 1889-1916	6.8	5
5	Urban NOx emissions around the world declined faster than anticipated between 2005 and 2019. *Environmental Research Letters*,	6.2	5
4	Comparison of Airborne Reactive Nitrogen Measurements During WINTER. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 10483-10502	4.4	4
3	Wintertime Spatial Distribution of Ammonia and its Emission Sources in the Great Salt Lake Region **2019**,		3
2	A global anthropogenic emission inventory of atmospheric pollutants from sector- and fuel-specific sources (1970 2017): An application of the Community Emissions Data System (CEDS)		2
1	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033518	4.4	2