

# Gregory R Carmichael

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,224  
citations

430843

18  
h-index

610883

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive nitrogen chemistry in aerosol water as a source of sulfate during haze events in China. <i>Science Advances</i> , 2016, 2, e1601530.	10.3	820
2	“What We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Health” <i>Environmental Science &amp; Technology</i> , 2016, 50, 4895-4904.	10.0	294
3	Light Absorption Properties and Radiative Effects of Primary Organic Aerosol Emissions. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4868-4877.	10.0	156
4	Gas-Particle Partitioning of Nitric Acid Modulated by Alkaline Aerosol. <i>Journal of Atmospheric Chemistry</i> , 2001, 40, 1-22.	3.2	91
5	Characterization of the seasonal cycle of south Asian aerosols: A regional-scale modeling analysis. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	89
6	Impacts of Asian megacity emissions on regional air quality during spring 2001. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	85
7	An intercomparison and evaluation of aircraft-derived and simulated CO from seven chemical transport models during the TRACE-P experiment. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	78
8	Numerical Investigation of the Influence of Mineral Dust on the Tropospheric Chemistry of East Asia. <i>Journal of Atmospheric Chemistry</i> , 2000, 36, 285-323.	3.2	70
9	Airborne tunable diode laser measurements of formaldehyde during TRACE-P: Distributions and box model comparisons. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	68
10	Estimates of Health Impacts and Radiative Forcing in Winter Haze in Eastern China through Constraints of Surface PM <sub>2.5</sub> Predictions. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2178-2185.	10.0	64
11	Large-scale structure of trace gas and aerosol distributions over the western Pacific Ocean during the Transport and Chemical Evolution Over the Pacific (TRACE-P) experiment. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	59
12	Natural gas shortages during the “coal-to-gas” transition in China have caused a large redistribution of air pollution in winter 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31018-31025.	7.1	56
13	INTEGRATED ANALYSIS FOR ACID RAIN IN ASIA: Policy Implications and Results of RAINS-ASIA Model. <i>Annual Review of Environment and Resources</i> , 2000, 25, 339-375.	1.2	44
14	An evaluation of reaction probabilities of sulfate and nitrate precursors onto East Asian dust particles. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
15	Modeled aerosol nitrate formation pathways during wintertime in the Great Lakes region of North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,420.	3.3	38
16	Spatial distribution and size evolution of particles in Asian outflow: Significance of primary and secondary aerosols during ACE-Asia and TRACE-P. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	34
17	Sulfur Deposition in Asia: Seasonal Behavior and Contributions from Various Energy Sectors. <i>Water, Air, and Soil Pollution</i> , 2001, 131, 383-406.	2.4	28
18	Effects of Miyake volcanic effluents on airborne particles and precipitation in central Japan. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	20

#	ARTICLE	IF	CITATIONS
19	Differences Between Magnitudes and Health Impacts of BC Emissions Across the United States Using 12 km Scale Seasonal Source Apportionment. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4362-4371.	10.0	20
20	Stereoscopic Monitoring: A Promising Strategy to Advance Diagnostic and Prediction of Air Pollution. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E730-E737.	3.3	18
21	Atmospheric dispersion of PCB from a contaminated Lake Michigan harbor. <i>Atmospheric Environment</i> , 2015, 122, 791-798.	4.1	15
22	A multiphase CMAQ version 5.0 adjoint. <i>Geoscientific Model Development</i> , 2020, 13, 2925-2944.	3.6	15
23	Characterization of ground-based atmospheric pollution and meteorology sampling stations during the Lake Michigan Ozone Study 2017. <i>Journal of the Air and Waste Management Association</i> , 2021, 71, 866-889.	1.9	11
24	Lidar Measurements of the Vertical Distribution of Aerosol Optical and Physical Properties over Central Asia. <i>International Journal of Atmospheric Sciences</i> , 2013, 2013, 1-17.	0.5	8
25	Aiche environmental division newsletter. <i>Environmental Progress</i> , 2006, 25, 173-174.	0.7	0