

# Annmarie G Carlton

## List of Publications by Year in descending order

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78  
papers

6,486  
citations

126907

33  
h-index

79698

73  
g-index

107  
all docs

107  
docs citations

107  
times ranked

4495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thank You to Our 2021 Peer Reviewers. <i>Reviews of Geophysics</i> , 2022, 60, .	23.0	0
2	Investigating the evolution of water-soluble organic carbon in evaporating cloud water. <i>Environmental Science Atmospheres</i> , 2021, 1, 21-30.	2.4	2
3	Thank You to Our Peer Reviewers for 2020. <i>Reviews of Geophysics</i> , 2021, 59, e2021RG000741.	23.0	0
4	Diurnal and Seasonal Variations in the Phase State of Secondary Organic Aerosol Material over the Contiguous US Simulated in CMAQ. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1971-1982.	2.7	12
5	Urban aerosol chemistry at a land-water transition site during summer Part 1: Impact of agricultural and industrial ammonia emissions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13051-13065.	4.9	2
6	Box Model Intercomparison of Cloud Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	7
7	Partitioning of Ambient Organic Gases to Inorganic Salt Solutions: Influence of Salt Identity, Ionic Strength, and pH. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095247.	4.0	5
8	Urban aerosol chemistry at a land-water transition site during summer Part 2: Aerosol pH and liquid water content. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18271-18281.	4.9	2
9	Multiphase Atmospheric Chemistry in Liquid Water: Impacts and Controllability of Organic Aerosol. <i>Accounts of Chemical Research</i> , 2020, 53, 1715-1723.	15.6	23
10	Changing Nature of Organic Carbon over the United States. <i>Environmental Science &amp; Technology</i> , 2020, 54, 10524-10532.	10.0	11
11	No evidence for brown carbon formation in ambient particles undergoing atmospherically relevant drying. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 442-450.	3.5	8
12	Thank You to Our Peer Reviewers for 2019. <i>Reviews of Geophysics</i> , 2020, 58, no.	23.0	0
13	On Aerosol Liquid Water and Sulfate Associations: The Potential for Fine Particulate Matter Biases. <i>Atmosphere</i> , 2020, 11, 194.	2.3	9
14	Overview of the CPOC Pilot Study at Whiteface Mountain, NY: Cloud Processing of Organics within Clouds (CPOC). <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1820-E1841.	3.3	8
15	Differences in fine particle chemical composition on clear and cloudy days. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11607-11624.	4.9	7
16	Assessing the effects of power grid expansion on human health externalities. <i>Socio-Economic Planning Sciences</i> , 2019, 66, 92-104.	5.0	16
17	A Metamodeling Framework for Quantifying Health Damages of Power Grid Expansion Plans. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1857.	2.6	1
18	Aerosol Optical Thickness: Organic Composition, Associated Particle Water, and Aloft Extinction. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 403-412.	2.7	7

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19	Chemical composition of ultrafine aerosol particles in central Amazonia during the wet season. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13053-13066.	4.9	11
20	Controlling Biogenic Particle Mass with NO <sub>x</sub> and SO <sub>x</sub> . <i>Em: Air and Waste Management Association's Magazine for Environmental Managers</i> , 2019, null, 9-13.	0.2	0
21	Vertically resolved concentration and liquid water content of atmospheric nanoparticles at the US DOE Southern Great Plains site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 311-326.	4.9	31
22	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 547-567.	3.3	62
23	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2615-2651.	4.9	36
24	Detailed Characterization of Organic Carbon from Fire: Capitalizing on Analytical Advances To Improve Atmospheric Models. <i>ACS Symposium Series</i> , 2018, , 349-361.	0.5	0
25	Generation expansion planning considering health and societal damages – A simulation-based optimization approach. <i>Energy</i> , 2018, 164, 951-963.	8.8	32
26	Additional Benefits of Federal Air-Quality Rules: Model Estimates of Controllable Biogenic Secondary Organic Aerosol. <i>Environmental Science &amp; Technology</i> , 2018, 52, 9254-9265.	10.0	36
27	Potential of Aerosol Liquid Water to Facilitate Organic Aerosol Formation: Assessing Knowledge Gaps about Precursors and Partitioning. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3327-3335.	10.0	55
28	The Essential Role for Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2519-2528.	10.0	75
29	Simulating Aqueous-Phase Isoprene-Epoxydiol (IEPOX) Secondary Organic Aerosol Production During the 2013 Southern Oxidant and Aerosol Study (SOAS). <i>Environmental Science &amp; Technology</i> , 2017, 51, 5026-5034.	10.0	86
30	Federal Science Matters: We All Live Downwind of a Harvey-Arkema Disaster. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10930-10931.	10.0	1
31	Why and How to Write a High-Impact Review Paper: Lessons From Eight Years of Editorial Board Service to <i>Reviews of Geophysics</i> . <i>Reviews of Geophysics</i> , 2017, 55, 860-863.	23.0	1
32	Multiphase Chemistry: Experimental Design for Coordinated Measurement and Modeling Studies of Cloud Processing at a Mountaintop. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, ES163-ES167.	3.3	8
33	Urban emissions of water vapor in winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9467-9484.	3.3	18
34	On the implications of aerosol liquid water and phase separation for organic aerosol mass. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 343-369.	4.9	189
35	Semivolatile POA and parameterized total combustion SOA in CMAQv5.2: impacts on source strength and partitioning. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11107-11133.	4.9	109
36	A framework for expanding aqueous chemistry in the Community Multiscale Air Quality (CMAQ) model version 5.1. <i>Geoscientific Model Development</i> , 2017, 10, 1587-1605.	3.6	50

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37	High Electricity Demand in the Northeast U.S.: PJM Reliability Network and Peaking Unit Impacts on Air Quality. <i>Environmental Science &amp; Technology</i> , 2016, 50, 8375-8384.	10.0	10
38	Reconciling satellite aerosol optical thickness and surface fine particle mass through aerosol liquid water. <i>Geophysical Research Letters</i> , 2016, 43, 11,903.	4.0	18
39	Aerosol optical properties in the southeastern United States in summer – Part 1: Hygroscopic growth. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4987-5007.	4.9	88
40	Identifying precursors and aqueous organic aerosol formation pathways during the SOAS campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14409-14420.	4.9	33
41	Liquid Water: Ubiquitous Contributor to Aerosol Mass. <i>Environmental Science and Technology Letters</i> , 2016, 3, 257-263.	8.7	121
42	Fine-particle water and pH in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5211-5228.	4.9	413
43	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5773-5801.	4.9	139
44	Gas and aerosol carbon in California: comparison of measurements and model predictions in Pasadena and Bakersfield. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5243-5258.	4.9	48
45	Decreasing Aerosol Water Is Consistent with OC Trends in the Southeast U.S.. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7843-7850.	10.0	47
46	Temporalization of Peak Electric Generation Particulate Matter Emissions during High Energy Demand Days. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4696-4704.	10.0	14
47	Regional Air Quality Model Application of the Aqueous-Phase Photo Reduction of Atmospheric Oxidized Mercury by Dicarboxylic Acids. <i>Atmosphere</i> , 2014, 5, 1-15.	2.3	23
48	The Data Gap: Can a Lack of Monitors Obscure Loss of Clean Air Act Benefits in Fracking Areas?. <i>Environmental Science &amp; Technology</i> , 2014, 48, 893-894.	10.0	23
49	Aerosol Liquid Water Driven by Anthropogenic Nitrate: Implications for Lifetimes of Water-Soluble Organic Gases and Potential for Secondary Organic Aerosol Formation. <i>Environmental Science &amp; Technology</i> , 2014, 48, 11127-11136.	10.0	94
50	Partitioning of HNO <sub>3</sub> , H <sub>2</sub> O <sub>2</sub> and SO <sub>2</sub> to cloud ice: Simulations with CMAQ. <i>Atmospheric Environment</i> , 2014, 88, 239-246.	4.1	1
51	Trends in particle-phase liquid water during the Southern Oxidant and Aerosol Study. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10911-10930.	4.9	75
52	Organosulfates in cloud water above the Ozarks' isoprene source region. <i>Atmospheric Environment</i> , 2013, 77, 231-238.	4.1	52
53	Particle partitioning potential of organic compounds is highest in the Eastern US and driven by anthropogenic water. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10203-10214.	4.9	162
54	Analyzing experimental data and model parameters: implications for predictions of SOA using chemical transport models. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12073-12088.	4.9	38

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55	Evaluation of factors controlling global secondary organic aerosol production from cloud processes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1913-1926.	4.9	27
56	Combining Bayesian methods and aircraft observations to constrain the HO <sub>2</sub> + NO <sub>2</sub> reaction rate. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 653-667.	4.9	33
57	Aerosols from Fires: An Examination of the Effects on Ozone Photochemistry in the Western United States. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11878-11886.	10.0	61
58	Global in-cloud production of secondary organic aerosols: Implementation of a detailed chemical mechanism in the GFDL atmospheric model AM3. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	57
59	Modeling secondary organic aerosol formation from xylene and aromatic mixtures using a dynamic partitioning approach incorporating particle aqueous-phase chemistry (II). <i>Atmospheric Environment</i> , 2012, 56, 250-260.	4.1	8
60	Photochemical Modeling of the Ozark Isoprene Volcano: MEGAN, BEIS, and Their Impacts on Air Quality Predictions. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4438-4445.	10.0	114
61	Modeling secondary organic aerosol using a dynamic partitioning approach incorporating particle aqueous-phase chemistry. <i>Atmospheric Environment</i> , 2011, 45, 1126-1137.	4.1	25
62	Evaluation of simulated photochemical partitioning of oxidized nitrogen in the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 275-291.	4.9	37
63	Impact of a new condensed toluene mechanism on air quality model predictions in the US. <i>Geoscientific Model Development</i> , 2011, 4, 183-193.	3.6	53
64	The contribution of marine organics to the air quality of the western United States. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7415-7423.	4.9	21
65	SOA from methylglyoxal in clouds and wet aerosols: Measurement and prediction of key products. <i>Atmospheric Environment</i> , 2010, 44, 5218-5226.	4.1	181
66	Model Representation of Secondary Organic Aerosol in CMAQv4.7. <i>Environmental Science &amp; Technology</i> , 2010, 44, 8553-8560.	10.0	364
67	To What Extent Can Biogenic SOA be Controlled?. <i>Environmental Science &amp; Technology</i> , 2010, 44, 3376-3380.	10.0	254
68	Examination of the impact of photoexcited NO <sub>2</sub> chemistry on regional air quality. <i>Atmospheric Environment</i> , 2009, 43, 6383-6387.	4.1	20
69	A review of Secondary Organic Aerosol (SOA) formation from isoprene. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4987-5005.	4.9	750
70	Oligomers formed through in-cloud methylglyoxal reactions: Chemical composition, properties, and mechanisms investigated by ultra-high resolution FT-ICR mass spectrometry. <i>Atmospheric Environment</i> , 2008, 42, 1476-1490.	4.1	325
71	CMAQ Model Performance Enhanced When In-Cloud Secondary Organic Aerosol is Included: Comparisons of Organic Carbon Predictions with Measurements. <i>Environmental Science &amp; Technology</i> , 2008, 42, 8798-8802.	10.0	183
72	Secondary organic aerosol yields from cloud-processing of isoprene oxidation products. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	238

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73	Atmospheric oxalic acid and SOA production from glyoxal: Results of aqueous photooxidation experiments. <i>Atmospheric Environment</i> , 2007, 41, 7588-7602.	4.1	487
74	Link between isoprene and secondary organic aerosol (SOA): Pyruvic acid oxidation yields low volatility organic acids in clouds. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	304
75	Evidence for Oligomer Formation in Clouds: Reactions of Isoprene Oxidation Products. <i>Environmental Science &amp; Technology</i> , 2006, 40, 4956-4960.	10.0	175
76	Isoprene Forms Secondary Organic Aerosol through Cloud Processing: Model Simulations. <i>Environmental Science &amp; Technology</i> , 2005, 39, 4441-4446.	10.0	405
77	Design of a Cost-Effective Weighing Facility for PM2.5 Quality Assurance. <i>Journal of the Air and Waste Management Association</i> , 2002, 52, 506-510.	1.9	7
78	Microanalysis Methods for Characterization of Personal Aerosol Exposures. <i>Aerosol Science and Technology</i> , 1999, 31, 66-80.	3.1	23