

# Caroline C Womack

## List of Publications by Year in descending order

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31  
papers

830  
citations

516710

16  
h-index

501196

28  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1256  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complexity in the Evolution, Composition, and Spectroscopy of Brown Carbon in Aircraft Measurements of Wildfire Plumes. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	10
2	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. <i>Environmental Science &amp; Technology</i> , 2022, 56, 7564-7577.	10.0	15
3	Complex refractive indices in the ultraviolet and visible spectral region for highly absorbing non-spherical biomass burning aerosol. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7235-7252.	4.9	11
4	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
5	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16293-16317.	4.9	34
6	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15646-15657.	10.0	11
7	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021, 7, eabl3648.	10.3	45
8	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18319-18331.	4.9	24
9	A portable, robust, stable, and tunable calibration source for gas-phase nitrous acid (HONO). <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5873-5890.	3.1	14
10	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
11	Evidence in biomass burning smoke for a light-absorbing aerosol with properties intermediate between brown and black carbon. <i>Aerosol Science and Technology</i> , 2019, 53, 976-989.	3.1	37
12	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO <sub>x</sub> and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019, 46, 4971-4979.	4.0	80
13	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
14	Investigating biomass burning aerosol morphology using a laser imaging nephelometer. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1879-1894.	4.9	20
15	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
16	Oxygen-18 Isotopic Studies of H <sub>2</sub> O and D <sub>2</sub> O. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6296-6303.	2.5	4
17	Evaluation of the accuracy of thermal dissociation CRDS and LIF techniques for atmospheric measurement of reactive nitrogen species. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1911-1926.	3.1	18
18	A Molecular Precursor to Phosphacetylene and Its Application in Synthesis of the Aromatic 1,2,3,4-Phosphatriazolone Anion. <i>Journal of the American Chemical Society</i> , 2016, 138, 6731-6734.	13.7	40

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19	Spontaneous and Selective Formation of HSNO, a Crucial Intermediate Linking H <sub>2</sub> S and Nitroso Chemistries. <i>Journal of the American Chemical Society</i> , 2016, 138, 11441-11444.	13.7	60
20	Observation of the simplest Criegee intermediate CH <sub>2</sub> OO in the gas-phase ozonolysis of ethylene. <i>Science Advances</i> , 2015, 1, e1400105.	10.3	73
21	Millimeter-wave optical double resonance schemes for rapid assignment of perturbed spectra, with applications to the C1f1B2 state of SO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2015, 142, 144201.	3.0	18
22	Gas-Phase Structure Determination of Dihydroxycarbene, One of the Smallest Stable Singlet Carbenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4089-4092.	13.8	16
23	Radical Intermediates in the Addition of OH to Propene: Photolytic Precursors and Angular Momentum Effects. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3211-3229.	2.5	10
24	Effects of High Angular Momentum on the Unimolecular Dissociation of CD <sub>2</sub> CD <sub>2</sub> OH: Theory and Comparisons with Experiment. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10951-10963.	2.5	16
25	The Simplest Criegee Intermediate (H <sub>2</sub> C=O=O): Isotopic Spectroscopy, Equilibrium Structure, and Possible Formation from Atmospheric Lightning. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4133-4139.	4.6	88
26	Photoproduct Channels from BrCD <sub>2</sub> CD <sub>2</sub> OH at 193 nm and the HDO + Vinyl Products from the CD <sub>2</sub> CD <sub>2</sub> OH Radical Intermediate. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6394-6407.	2.5	9
27	Characterizing the Rovibrational Distribution of CD <sub>2</sub> CD <sub>2</sub> OH Radicals Produced via the Photodissociation of 2-Bromoethanol- <i>d</i> <sub>4</sub> . <i>Journal of Physical Chemistry A</i> , 2011, 115, 14559-14569.	2.5	9
28	Dissociative photoionization of CH <sub>3</sub> C(O)CH <sub>2</sub> to C <sub>2</sub> H <sub>5</sub> <sup>+</sup> . <i>International Journal of Mass Spectrometry</i> , 2011, 304, 45-50.	1.5	7
29	The dissociation of vibrationally excited CH <sub>3</sub> OSO radicals and their photolytic precursor, methoxysulfinyl chloride. <i>Journal of Chemical Physics</i> , 2011, 134, 194304.	3.0	5
30	Modeling the Rovibrationally Excited C <sub>2</sub> H <sub>4</sub> OH Radicals from the Photodissociation of 2-Bromoethanol at 193 nm. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4934-4945.	2.5	29
31	Assessing an Impulsive Model for Rotational Energy Partitioning to Acetyl Radicals from the Photodissociation of Acetyl Chloride at 235 nm. <i>Journal of Physical Chemistry A</i> , 2010, 114, 13005-13010.	2.5	20