

# Cynthia A Randles

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22  
papers

4,468  
citations

17  
h-index

22  
g-index

22  
ext. papers

5,741  
ext. citations

5.6  
avg, IF

4.88  
L-index

#	Paper	IF	Citations
22	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). <i>Journal of Climate</i> , <b>2017</b> , Volume 30, 5419-5454	4.4	2815
21	The MERRA-2 Aerosol Reanalysis, 1980 - onward, Part I: System Description and Data Assimilation Evaluation. <i>Journal of Climate</i> , <b>2017</b> , 30, 6823-6850	4.4	451
20	The MERRA-2 Aerosol Reanalysis, 1980 Onward. Part II: Evaluation and Case Studies. <i>Journal of Climate</i> , <b>2017</b> , 30, 6851-6872	4.4	287
19	Using the OMI aerosol index and absorption aerosol optical depth to evaluate the NASA MERRA Aerosol Reanalysis. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 5743-5760	6.8	130
18	Host model uncertainties in aerosol radiative forcing estimates: results from the AeroCom Prescribed intercomparison study. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 3245-3270	6.8	113
17	Impact of radiatively interactive dust aerosols in the NASA GEOS-5 climate model: Sensitivity to dust particle shape and refractive index. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 7537-7546	4.4	97
16	Evaluation of the surface PM <sub>2.5</sub> in Version 1 of the NASA MERRA Aerosol Reanalysis over the United States. <i>Atmospheric Environment</i> , <b>2016</b> , 125, 100-111	5.3	93
15	Hygroscopic and optical properties of organic sea salt aerosol and consequences for climate forcing. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	92
14	Absorbing aerosols over Asia: A Geophysical Fluid Dynamics Laboratory general circulation model sensitivity study of model response to aerosol optical depth and aerosol absorption. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		88
13	Intercomparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Experiment. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 2347-2379	6.8	85
12	Influence of the 2006 Indonesian biomass burning aerosols on tropical dynamics studied with the GEOS-5 AGCM. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		36
11	Direct and semi-direct aerosol effects in the NASA GEOS-5 AGCM: aerosol-climate interactions due to prognostic versus prescribed aerosols. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 149-169	4.4	33
10	Direct and semi-direct impacts of absorbing biomass burning aerosol on the climate of southern Africa: a Geophysical Fluid Dynamics Laboratory GCM sensitivity study. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 9819-9831	6.8	31
9	Detecting high-emitting methane sources in oil/gas fields using satellite observations. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 16885-16896	6.8	25
8	Potential of next-generation imaging spectrometers to detect and quantify methane point sources from space. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 5655-5668	4	22
7	Discrepancies and Uncertainties in Bottom-up Gridded Inventories of Livestock Methane Emissions for the Contiguous United States. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 13668-13677	10.3	20
6	Assessing the capability of different satellite observing configurations to resolve the distribution of methane emissions at kilometer scales. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 8265-8278	6.8	17

5	Multisatellite Imaging of a Gas Well Blowout Enables Quantification of Total Methane Emissions. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL090864	4.9	14
4	Anthropogenic aerosol forcing of the Atlantic meridional overturning circulation and the associated mechanisms in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 5821-5846	6.8	12
3	A global model measurement evaluation of particle light scattering coefficients at elevated relative humidity. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 10231-10258	6.8	7
2	Climate and air pollution implications of potential energy infrastructure and policy measures in India. <i>Energy and Climate Change</i> , <b>2022</b> , 3, 100067	1.2	0
1	Current and Future Perspectives of Aerosol Research at NASA Goddard Space Flight Center. <i>Bulletin of the American Meteorological Society</i> , <b>2014</b> , 95, ES203-ES207	6.1	