

# Cynthia A Randles

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

7,023  
citations

393982

19  
h-index

713013

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

9143  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). Journal of Climate, 2017, 30, 5419-5454.	1.2	4,520
2	The MERRA-2 Aerosol Reanalysis, 1980 Onward. Part I: System Description and Data Assimilation Evaluation. Journal of Climate, 2017, 30, 6823-6850.	1.2	739
3	The MERRA-2 Aerosol Reanalysis, 1980 Onward. Part II: Evaluation and Case Studies. Journal of Climate, 2017, 30, 6851-6872.	1.2	469
4	Using the OMI aerosol index and absorption aerosol optical depth to evaluate the NASA MERRA Aerosol Reanalysis. Atmospheric Chemistry and Physics, 2015, 15, 5743-5760.	1.9	184
5	Evaluation of the surface PM2.5 in Version 1 of the NASA MERRA Aerosol Reanalysis over the United States. Atmospheric Environment, 2016, 125, 100-111.	1.9	169
6	Host model uncertainties in aerosol radiative forcing estimates: results from the AeroCom Prescribed intercomparison study. Atmospheric Chemistry and Physics, 2013, 13, 3245-3270.	1.9	143
7	Impact of radiatively interactive dust aerosols in the NASA GEOS-5 climate model: Sensitivity to dust particle shape and refractive index. Journal of Geophysical Research D: Atmospheres, 2014, 119, 753-786.	1.2	138
8	Hygroscopic and optical properties of organic sea salt aerosol and consequences for climate forcing. Geophysical Research Letters, 2004, 31, .	1.5	112
9	Absorbing aerosols over Asia: A Geophysical Fluid Dynamics Laboratory general circulation model sensitivity study of model response to aerosol optical depth and aerosol absorption. Journal of Geophysical Research, 2008, 113, .	3.3	100
10	Intercomparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Experiment. Atmospheric Chemistry and Physics, 2013, 13, 2347-2379.	1.9	94
11	Potential of next-generation imaging spectrometers to detect and quantify methane point sources from space. Atmospheric Measurement Techniques, 2019, 12, 5655-5668.	1.2	58
12	Influence of the 2006 Indonesian biomass burning aerosols on tropical dynamics studied with the GEOS-5 AGCM. Journal of Geophysical Research, 2010, 115, .	3.3	42
13	Direct and semi-direct aerosol effects in the NASA GEOS-5 AGCM: aerosol-climate interactions due to prognostic versus prescribed aerosols. Journal of Geophysical Research D: Atmospheres, 2013, 118, 149-169.	1.2	39
14	Detecting high-emitting methane sources in oil/gas fields using satellite observations. Atmospheric Chemistry and Physics, 2018, 18, 16885-16896.	1.9	39
15	Multisatellite Imaging of a Gas Well Blowout Enables Quantification of Total Methane Emissions. Geophysical Research Letters, 2021, 48, e2020GL090864.	1.5	39
16	Direct and semi-direct impacts of absorbing biomass burning aerosol on the climate of southern Africa: a Geophysical Fluid Dynamics Laboratory GCM sensitivity study. Atmospheric Chemistry and Physics, 2010, 10, 9819-9831.	1.9	34
17	Discrepancies and Uncertainties in Bottom-up Gridded Inventories of Livestock Methane Emissions for the Contiguous United States. Environmental Science & Technology, 2017, 51, 13668-13677.	4.6	30
18	Assessing the capability of different satellite observing configurations to resolve the distribution of methane emissions at kilometer scales. Atmospheric Chemistry and Physics, 2018, 18, 8265-8278.	1.9	27

#	ARTICLE	IF	CITATIONS
19	Anthropogenic aerosol forcing of the Atlantic meridional overturning circulation and the associated mechanisms in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5821-5846.	1.9	25
20	A global modelâ€“measurement evaluation of particle light scattering coefficients at elevated relative humidity. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10231-10258.	1.9	19
21	Climate and air pollution implications of potential energy infrastructure and policy measures in India. <i>Energy and Climate Change</i> , 2022, 3, 100067.	2.2	3
22	Current and Future Perspectives of Aerosol Research at NASA Goddard Space Flight Center. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, ES203-ES207.	1.7	0