Cynthia A Randles

List of Publications by Year
in descending order

22	7,023	394421	713466
papers	citations	19 h-index	21 g-index

22	22	22	9143
all docs	docs citations	times ranked	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.	3.2	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.	3.2	739
3	The MERRA-2 Aerosol Reanalysis, 1980 Onward. Part II: Evaluation and Case Studies. Journal of Climate, 2017, 30, 6851-6872.	3.2	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.	4.9	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.	4.1	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.	4.9	143
7	Impact of radiatively interactive dust aerosols in the NASA GEOSâ€5 climate model: Sensitivity to dust particle shape and refractive index. Journal of Geophysical Research D: Atmospheres, 2014, 119, 753-786.	3.3	138
8	Hygroscopic and optical properties of organic sea salt aerosol and consequences for climate forcing. Geophysical Research Letters, 2004, 31, .	4.0	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.	4.9	94
11	Potential of next-generation imaging spectrometers to detect and quantify methane point sources from space. Atmospheric Measurement Techniques, 2019, 12, 5655-5668.	3.1	58
12	Influence of the 2006 Indonesian biomass burning aerosols on tropical dynamics studied with the GEOSâ€5 AGCM. Journal of Geophysical Research, 2010, 115, .	3.3	42
13	Direct and semiâ€direct aerosol effects in the NASA GEOSâ€5 AGCM: aerosolâ€climate interactions due to prognostic versus prescribed aerosols. Journal of Geophysical Research D: Atmospheres, 2013, 118, 149-169.	3.3	39
14	Detecting high-emitting methane sources in oil/gas fields using satellite observations. Atmospheric Chemistry and Physics, 2018, 18, 16885-16896.	4.9	39
15	Multisatellite Imaging of a Gas Well Blowout Enables Quantification of Total Methane Emissions. Geophysical Research Letters, 2021, 48, e2020GL090864.	4.0	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.	4.9	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.	10.0	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.	4.9	27

#	Article	IF	Citations
19	Anthropogenic aerosol forcing of the Atlantic meridional overturning circulation and the associated mechanisms in CMIP6 models. Atmospheric Chemistry and Physics, 2021, 21, 5821-5846.	4.9	25
20	A global modelâ€“measurement evaluation of particle light scattering coefficients at elevated relative humidity. Atmospheric Chemistry and Physics, 2020, 20, 10231-10258.	4.9	19
21	Climate and air pollution implications of potential energy infrastructure and policy measures in India. Energy and Climate Change, 2022, 3, 100067.	4.4	3
22	Current and Future Perspectives of Aerosol Research at NASA Goddard Space Flight Center. Bulletin of the American Meteorological Society, 2014, 95, ES203-ES207.	3.3	0