Matthew T Woodhouse

List of Publications by Year
in descending order

34 papers	3,600 citations	331259 21 h-index	377514 34 g-index
53 all docs	53 docs citations	53 times ranked	5098 citing authors

#	Article	IF	Citations
1	Large contribution of natural aerosols to uncertainty in indirect forcing. Nature, 2013, 503, 67-71.	13.7	814
2	The importance of feldspar for ice nucleation by mineral dust in mixed-phase clouds. Nature, 2013, 498, 355-358.	13.7	590
3	UKESM1: Description and Evaluation of the U.K. Earth System Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 4513-4558.	1.3	448
4	Tropospheric Ozone Assessment Report: Assessment of global-scale model performance for global and regional ozone distributions, variability, and trends. Elementa, 2018, 6, .	1.1	177
5	Influence of oceanic dimethyl sulfide emissions on cloud condensation nuclei concentrations and seasonality over the remote Southern Hemisphere oceans: A global model study. Journal of Geophysical Research, 2008, 113, .	3.3	162
6	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. Atmospheric Chemistry and Physics, 2014, 14, 4679-4713.	1.9	148
7	Configuration and spin-up of ACCESS-CM2, the new generation Australian Community Climate and Earth System Simulator Coupled Model. Journal of Southern Hemisphere Earth Systems Science, 2020, 70, 225-251.	0.7	136
8	The impact of residential combustion emissions on atmospheric aerosol, human health, and climate. Atmospheric Chemistry and Physics, 2016, 16, 873-905.	1.9	122
9	Impact of the modal aerosol scheme GLOMAP-mode on aerosol forcing in the Hadley Centre Global Environmental Model. Atmospheric Chemistry and Physics, 2013, 13, 3027-3044.	1.9	106
10	Low sensitivity of cloud condensation nuclei to changes in the sea-air flux of dimethyl-sulphide. Atmospheric Chemistry and Physics, 2010, 10, 7545-7559.	1.9	105
11	Intercomparison of modal and sectional aerosol microphysics representations within the same 3-D global chemical transport model. Atmospheric Chemistry and Physics, 2012, 12, 4449-4476.	1.9	101
12	Sensitivity of cloud condensation nuclei to regional changes in dimethyl-sulphide emissions. Atmospheric Chemistry and Physics, 2013, 13, 2723-2733.	1.9	83
13	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. Geoscientific Model Development, 2020, 13, 6383-6423.	1.3	83
14	Modelled and observed changes in aerosols and surface solar radiation over Europe between 1960 and 2009. Atmospheric Chemistry and Physics, 2015, 15, 9477-9500.	1.9	61
15	Uncertainty in the magnitude of aerosolâ€cloud radiative forcing over recent decades. Geophysical Research Letters, 2014, 41, 9040-9049.	1.5	49
16	Processes Controlling Tropical Tropopause Temperature and Stratospheric Water Vapor in Climate Models. Journal of Climate, 2015, 28, 6516-6535.	1.2	47
17	An improved parameterisation of ozone dry deposition to the ocean and its impact in a global climateâ€“chemistry model. Atmospheric Chemistry and Physics, 2017, 17, 3749-3767.	1.9	46
18	Minor effect of physical size sorting on iron solubility of transported mineral dust. Atmospheric Chemistry and Physics, 2011, 11, 8459-8469.	1.9	44

#	Article	IF	Citations
19	Cloud, precipitation and radiation responses to large perturbations in global dimethyl sulfide. Atmospheric Chemistry and Physics, 2018, 18, 10177-10198.	1.9	34
20	A revised global ozone dry deposition estimate based on a new two-layer parameterisation for airâ€“sea exchange and the multi-year MACC composition reanalysis. Atmospheric Chemistry and Physics, 2018, 18, 4329-4348.	1.9	31
21	The Impact of Changes in Cloud Water pH on Aerosol Radiative Forcing. Geophysical Research Letters, 2019, 46, 4039-4048.	1.5	31
22	New Directions: The impact of oceanic iron fertilisation on cloud condensation nuclei. Atmospheric Environment, 2008, 42, 5728-5730.	1.9	30
23	The Climatic Importance of Uncertainties in Regional Aerosolâ€“Cloud Radiative Forcings over Recent Decades. Journal of Climate, 2015, 28, 6589-6607.	1.2	18
24	Impact of the 2019/2020 Australian Megafires on Air Quality and Health. GeoHealth, 2021, 5, e2021GH000454.	1.9	16
25	DimethylsulfideÂ(DMS), marine biogenic aerosols and the ecophysiology of coral reefs. Biogeosciences, 2020, 17, 2181-2204.	1.3	13
26	Coral Reef Emissions of Atmospheric Dimethylsulfide and the Influence on Marine Aerosols in the Southern Great Barrier Reef, Australia. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031837.	1.2	10
27	Assessing and improving cloud-height-based parameterisations of global lightning flash rate, and their impact on lightning-produced NO_{<i>x</i>} and tropospheric composition in a chemistryâ€“climate model. Atmospheric Chemistry and Physics, 2021, 21, 7053-7082.	1.9	9
28	ACCESS datasets for CMIP6: methodology and idealised experiments. Journal of Southern Hemisphere Earth Systems Science, 2022, 72, 93-116.	0.7	9
29	Coral-reef-derived dimethyl sulfide and the climatic impact of the loss of coral reefs. Atmospheric Chemistry and Physics, 2021, 21, 5883-5903.	1.9	8
30	Parameterizing the Impact of Seawater Temperature and Irradiance on Dimethylsulfide (DMS) in the Great Barrier Reef and the Contribution of Coral Reefs to the Global Sulfur Cycle. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016783.	1.0	6
31	Australian Fire Emissions of Carbon Monoxide Estimated by Global Biomass Burning Inventories: Variability and Observational Constraints. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	6
32	The contribution of coral-reef-derived dimethyl sulfide to aerosol burden over the Great Barrier Reef: a modelling study. Atmospheric Chemistry and Physics, 2022, 22, 2419-2445.	1.9	6
33	Suppression of <scp>CCN</scp> formation by bromine chemistry in the remote marine atmosphere. Atmospheric Science Letters, 2015, 16, 141-147.	0.8	4
34	Simulation of Cloud-aerosol Lidar with Orthogonal Polarization (CALIOP) Attenuated Backscatter Profiles Using the Global Model of Aerosol Processes (GLOMAP). EPJ Web of Conferences, 2016, 119, 01005.	0.1	0