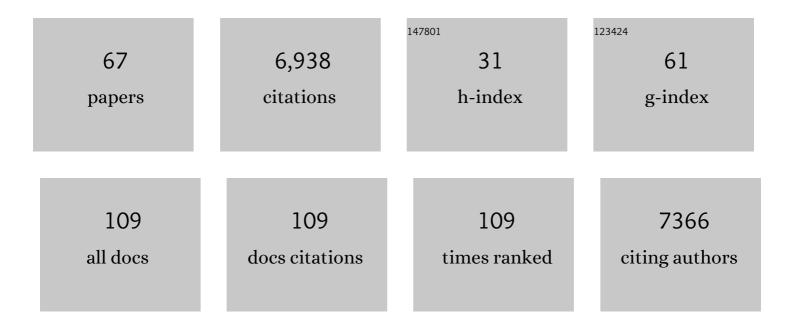
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	THE CLOUDSAT MISSION AND THE A-TRAIN. Bulletin of the American Meteorological Society, 2002, 83, 1771-1790.	3.3	1,845
2	Biomass burning emissions estimated with a global fire assimilation system based on observed fire radiative power. Biogeosciences, 2012, 9, 527-554.	3.3	876
3	Aerosol analysis and forecast in the European Centre for Mediumâ€Range Weather Forecasts Integrated Forecast System: 2. Data assimilation. Journal of Geophysical Research, 2009, 114, .	3.3	477
4	The MACC reanalysis: an 8 yr data set of atmospheric composition. Atmospheric Chemistry and Physics, 2013, 13, 4073-4109.	4.9	424
5	The AeroCom evaluation and intercomparison of organic aerosol in global models. Atmospheric Chemistry and Physics, 2014, 14, 10845-10895.	4.9	363
6	Aerosol analysis and forecast in the European Centre for Mediumâ€Range Weather Forecasts Integrated Forecast System: Forward modeling. Journal of Geophysical Research, 2009, 114, .	3.3	360
7	McClear: a new model estimating downwelling solar radiation at ground level in clear-sky conditions. Atmospheric Measurement Techniques, 2013, 6, 2403-2418.	3.1	272
8	TOWARD A MONITORING AND FORECASTING SYSTEM FOR ATMOSPHERIC COMPOSITION. Bulletin of the American Meteorological Society, 2008, 89, 1147-1164.	3.3	253
9	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
10	The CAMS interim Reanalysis of Carbon Monoxide, Ozone and Aerosol for 2003–2015. Atmospheric Chemistry and Physics, 2017, 17, 1945-1983.	4.9	127
11	Implementation of 1D+4D-Var assimilation of precipitation-affected microwave radiances at ECMWF. I: 1D-Var. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 2277-2306.	2.7	102
12	Implementation of 1D+4D-Var assimilation of precipitation-affected microwave radiances at ECMWF. II: 4D-Var. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 2307-2332.	2.7	85
13	Development towards a global operational aerosol consensus: basic climatological characteristics of the International Cooperative for Aerosol Prediction Multi-Model Ensemble (ICAP-MME). Atmospheric Chemistry and Physics, 2015, 15, 335-362.	4.9	76
14	The MACC-II 2007–2008 reanalysis: atmospheric dust evaluation and characterization over northern Africa and the Middle East. Atmospheric Chemistry and Physics, 2015, 15, 3991-4024.	4.9	76
15	Description and evaluation of the tropospheric aerosol scheme in the European Centre for Medium-Range Weather Forecasts (ECMWF) Integrated Forecasting System (IFS-AER, cycle 45R1). Geoscientific Model Development, 2019, 12, 4627-4659.	3.6	71
16	Current state of the global operational aerosol multiâ€model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP). Quarterly Journal of the Royal Meteorological Society, 2019, 145, 176-209.	2.7	66
17	Status and future of numerical atmospheric aerosol prediction with a focus on data requirements. Atmospheric Chemistry and Physics, 2018, 18, 10615-10643.	4.9	64
18	Hindcast experiments of tropospheric composition during the summer 2010 fires over western Russia. Atmospheric Chemistry and Physics, 2012, 12, 4341-4364.	4.9	62

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19	Two global data sets of daily fire emission injection heights since 2003. Atmospheric Chemistry and Physics, 2017, 17, 2921-2942.	4.9	61
20	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	3.3	61
21	Background error statistics for aerosols. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 391-405.	2.7	54
22	Validation of ECMWF global forecast model parameters using GLAS atmospheric channel measurements. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	53
23	Seaâ \in salt and dust aerosols in the ECMWF IFS model. Geophysical Research Letters, 2008, 35, .	4.0	53
24	Aerosol analysis and forecast in the European Centre for Medium-Range Weather Forecasts Integrated Forecast System: 3. Evaluation by means of case studies. Journal of Geophysical Research, 2011, 116, .	3.3	53
25	Feedbacks of dust and boundary layer meteorology during a dust storm in the eastern Mediterranean. Atmospheric Chemistry and Physics, 2015, 15, 12909-12933.	4.9	43
26	Aerosols for Concentrating Solar Electricity Production Forecasts: Requirement Quantification and ECMWF/MACC Aerosol Forecast Assessment. Bulletin of the American Meteorological Society, 2013, 94, 903-914.	3.3	40
27	An aerosol climatology for global models based on the tropospheric aerosol scheme in the Integrated Forecasting System of ECMWF. Geoscientific Model Development, 2020, 13, 1007-1034.	3.6	40
28	LSA SAF Meteosat FRP products – Part 2: Evaluation and demonstration for use in the Copernicus Atmosphere Monitoring Service (CAMS). Atmospheric Chemistry and Physics, 2015, 15, 13241-13267.	4.9	39
29	The Department of Energy's Atmospheric Radiation Measurement (ARM) Unmanned Aerospace Vehicle (UAV) Program. Bulletin of the American Meteorological Society, 2000, 81, 2915-2938.	3.3	37
30	Ice cloud microphysics retrievals from millimeter radar and visible optical depth using an estimation theory approach. Journal of Geophysical Research, 2003, 108, .	3.3	35
31	Forecasting the northern African dust outbreak towards Europe in April 2011: a model intercomparison. Atmospheric Chemistry and Physics, 2016, 16, 4967-4986.	4.9	32
32	Wind Profile Satellite Observation Requirements and Capabilities. Bulletin of the American Meteorological Society, 2020, 101, E2005-E2021.	3.3	31
33	The ENSO signal in atmospheric composition fields: emission-driven versus dynamically induced changes. Atmospheric Chemistry and Physics, 2015, 15, 9083-9097.	4.9	30
34	Experimental use of TRMM precipitation radar observations in 1D+4D-Var assimilation. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 2473-2495.	2.7	29
35	An evaluation of the impact of aerosol particles on weather forecasts from a biomass burning aerosol event over the Midwestern United States: observational-based analysis of surface temperature. Atmospheric Chemistry and Physics, 2016, 16, 6475-6494.	4.9	29
36	Saharan dust long-range transport across the Atlantic studied by an airborne Doppler wind lidar and the MACC model. Atmospheric Chemistry and Physics, 2016, 16, 11581-11600.	4.9	28

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37	On the vertical distribution of smoke in the Amazonian atmosphere during the dry season. Atmospheric Chemistry and Physics, 2016, 16, 2155-2174.	4.9	28
38	Can the Direct Effect of Aerosols Improve Subseasonal Predictability?. Monthly Weather Review, 2018, 146, 3481-3498.	1.4	28
39	Operational Dust Prediction. , 2014, , 223-265.		28
40	Assimilation of MODIS Cloud Optical Depths in the ECMWF Model. Monthly Weather Review, 2008, 136, 1727-1746.	1.4	25
41	The value of satellite observations in the analysis and short-range prediction of Asian dust. Atmospheric Chemistry and Physics, 2019, 19, 987-998.	4.9	24
42	Models transport Saharan dust too low in the atmosphere: a comparison of the MetUM and CAMS forecasts with observations. Atmospheric Chemistry and Physics, 2020, 20, 12955-12982.	4.9	24
43	A 3-D evaluation of the MACC reanalysis dust product over Europe, northern Africa and Middle East using CALIOP/CALIPSO dust satellite observations. Atmospheric Chemistry and Physics, 2018, 18, 8601-8620.	4.9	21
44	Experimental 2D-Var assimilation of ARM cloud and precipitation observations. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1325-1347.	2.7	19
45	International Operational Aerosol Observability Workshop. Bulletin of the American Meteorological Society, 2011, 92, ES21-ES24.	3.3	19
46	Verification of ECMWF and ECMWF/MACC's global and direct irradiance forecasts with respect to solar electricity production forecasts. Meteorologische Zeitschrift, 2017, 26, 1-19.	1.0	19
47	A global model–measurement evaluation of particle light scattering coefficients at elevated relative humidity. Atmospheric Chemistry and Physics, 2020, 20, 10231-10258.	4.9	19
48	Use of a Lidar Forward Model for Global Comparisons of Cloud Fraction between the ICESat Lidar and the ECMWF Model. Monthly Weather Review, 2008, 136, 3742-3759.	1.4	16
49	An evaluation of operational and research weather forecasts for southern West Africa using observations from the DACCIWA field campaign in June–July 2016. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1121-1148.	2.7	16
50	International Cooperative for Aerosol Prediction Workshop on Aerosol Forecast Verification. Bulletin of the American Meteorological Society, 2011, 92, ES48-ES53.	3.3	14
51	Verification of TMI-Adjusted Rainfall Analyses of Tropical Cyclones at ECMWF Using TRMM Precipitation Radar. Journal of Applied Meteorology and Climatology, 2005, 44, 1677-1690.	1.7	12
52	Properties of reflected sunlight derived from a Green's function method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 72, 201-225.	2.3	11
53	The influence of DACCIWA radiosonde data on the quality of ECMWF analyses and forecasts over southern West Africa. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1719-1739.	2.7	10
54	Variational assimilation of radar reflectivities in a cirrus model. I: Model description and adjoint sensitivity studies. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 277-300.	2.7	9

#	Article	IF	CITATIONS
55	Variational assimilation of radar reflectivities in a cirrus model. II: Optimal initialization and model bias estimation. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 301-319.	2.7	9
56	A Global Bottomâ€Up Approach to Estimate Fuel Consumed by Fires Using Above Ground Biomass Observations. Geophysical Research Letters, 2021, 48, e2021GL095452.	4.0	9
57	Characterization of errors in cirrus simulations from a cloud resolving model for application in ice water content retrievals. Atmospheric Research, 2001, 59-60, 393-417.	4.1	7
58	A Coupled Evaluation of Operational MODIS and Model Aerosol Products for Maritime Environments Using Sun Photometry: Evaluation of the Fine and Coarse Mode. Remote Sensing, 2022, 14, 2978.	4.0	6
59	MPLNET lidar data assimilation in the ECMWF MACC-II Aerosol system: evaluation of model performances at NCU lidar station. Proceedings of SPIE, 2014, , .	0.8	4
60	Applications of Satellite Observations ofÂVolcanic Ash in Atmospheric DispersionÂModeling. , 2016, , 233-246.		3
61	Corrigendum to "Development towards a global operational aerosol consensus: basic climatological characteristics of the International Cooperative for Aerosol Prediction Multi-Model Ensemble (ICAP-MME)" published in Atmos. Chem. Phys., 15, 335–362, 2015. Atmospheric Chemistry and Physics. 2015. 15. 2533-2534.	4.9	2
62	Inferring atmospheric dynamics from aerosol observations in 4Dâ€Var. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1403-1422.	2.7	2
63	Lidar measurements during a haze episode in Penang, Malaysia and validation of the ECMWF MACC-II model. AIP Conference Proceedings, 2015, , .	0.4	1
64	A 3-D Evaluation of the MACC Reanalysis Dust Product Over Europe Using CALIOP/CALIPSO Satellite Observations. Springer Atmospheric Sciences, 2017, , 795-800.	0.3	1
65	Aerosol Analysis and Forecast in the ECMWF Integrated Forecast System: Evaluation by Means of Case Studies. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 525-528.	0.2	1
66	Biomass Burning Aerosols in the Amazon Basin, Characterised by Lidar, Optical Particle Counters, and Modelling. EPJ Web of Conferences, 2016, 119, 23006.	0.3	0
67	Community Challenges and Prospects in the Operational Forecasting of Extreme Biomass Burning Smoke. , 2021, , .		0