

B T Johnson

List of Publications by Year in descending order

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68
papers

4,919
citations

117571

34
h-index

106281

65
g-index

113
all docs

113
docs citations

113
times ranked

5437
citing authors

#	ARTICLE	IF	CITATIONS
1	UKESM1: Description and Evaluation of the U.K. Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4513-4558.	1.3	448
2	The Met Office Unified Model Global Atmosphere 7.0/7.1 and JULES Global Land 7.0 configurations. <i>Geoscientific Model Development</i> , 2019, 12, 1909-1963.	1.3	372
3	The semi-direct aerosol effect: Impact of absorbing aerosols on marine stratocumulus. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 1407-1422.	1.0	333
4	The spatial distribution of mineral dust and its shortwave radiative forcing over North Africa: modeling sensitivities to dust emissions and aerosol size treatments. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8821-8838.	1.9	265
5	Aging of biomass burning aerosols over West Africa: Aircraft measurements of chemical composition, microphysical properties, and emission ratios. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	238
6	Strong constraints on aerosol–cloud interactions from volcanic eruptions. <i>Nature</i> , 2017, 546, 485-491.	13.7	191
7	Overview of the Dust and Biomass Burning Experiment and African Monsoon Multidisciplinary Analysis Special Observing Period. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	188
8	Physical and optical properties of mineral dust aerosol during the Dust and Biomass Burning Experiment. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	164
9	In situ observations of volcanic ash clouds from the FAAM aircraft during the eruption of Eyjafjallajökull in 2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	135
10	Aircraft measurements of biomass burning aerosol over West Africa during DABEX. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	108
11	Operational prediction of ash concentrations in the distal volcanic cloud from the 2010 Eyjafjallajökull eruption. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	108
12	Improved Aerosol Processes and Effective Radiative Forcing in HadGEM3 and UKESM1. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2786-2805.	1.3	106
13	Ground-based aerosol characterization during the South American Biomass Burning Analysis (SAMBBA) field experiment. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12069-12083.	1.9	103
14	Airborne lidar observations of the 2010 Eyjafjallajökull volcanic ash plume. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	96
15	Biomass burning aerosols in most climate models are too absorbing. <i>Nature Communications</i> , 2021, 12, 277.	5.8	84
16	Observations of mesoscale and boundary-layer scale circulations affecting dust transport and uplift over the Sahara. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6979-6993.	1.9	83
17	Performance assessment of a volcanic ash transport model mini-ensemble used for inverse modeling of the 2010 Eyjafjallajökull eruption. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	83
18	Implementation of U.K. Earth System Models for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001946.	1.3	83

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19	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. Geoscientific Model Development, 2020, 13, 6383-6423.	1.3	83
20	Vertical distribution and radiative effects of mineral dust and biomass burning aerosol over West Africa during DABEX. Journal of Geophysical Research, 2008, 113, .	3.3	77
21	Modeled and observed atmospheric radiation balance during the West African dry season: Role of mineral dust, biomass burning aerosol, and surface albedo. Journal of Geophysical Research, 2008, 113, .	3.3	73
22	Physical and optical properties of mineral dust aerosol measured by aircraft during the GERBILS campaign. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1117-1130.	1.0	71
23	Effective radiative forcing from emissions of reactive gases and aerosols â€“ a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874.	1.9	65
24	The effect of South American biomass burning aerosol emissions on the regional climate. Atmospheric Chemistry and Physics, 2018, 18, 5321-5342.	1.9	62
25	Large simulated radiative effects of smoke in the south-east Atlantic. Atmospheric Chemistry and Physics, 2018, 18, 15261-15289.	1.9	61
26	Motivation, rationale and key results from the GERBILS Saharan dust measurement campaign. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1106-1116.	1.0	58
27	The CLOUD â€“ Aerosol â€“ Radiation Interaction and Forcing: Year 2017 (CLARIFY-2017) measurement campaign. Atmospheric Chemistry and Physics, 2021, 21, 1049-1084.	1.9	57
28	Physico-chemical and optical properties of Sahelian and Saharan mineral dust: <i>in situ</i> measurements during the GERBILS campaign. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1193-1210.	1.0	53
29	Short-wave and long-wave radiative properties of Saharan dust aerosol. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1149-1167.	1.0	52
30	A case study of observations of volcanic ash from the Eyjafjallaj�kull eruption: 1. In situ airborne observations. Journal of Geophysical Research, 2012, 117, .	3.3	52
31	Sensitivity analysis of dispersion modeling of volcanic ash from Eyjafjallaj�kull in May 2010. Journal of Geophysical Research, 2012, 117, .	3.3	48
32	A case study of observations of volcanic ash from the Eyjafjallaj�kull eruption: 2. Airborne and satellite radiative measurements. Journal of Geophysical Research, 2012, 117, .	3.3	47
33	Measurements of aerosol properties from aircraft, satellite and ground-based remote sensing: a case study from the Dust and Biomass-burning Experiment (DABEX). Quarterly Journal of the Royal Meteorological Society, 2009, 135, 922-934.	1.0	46
34	Impacts of Amazonia biomass burning aerosols assessed from short-range weather forecasts. Atmospheric Chemistry and Physics, 2015, 15, 12251-12266.	1.9	46
35	Evaluation of biomass burning aerosols in the HadGEM3 climate model with observations from the SAMBBA field campaign. Atmospheric Chemistry and Physics, 2016, 16, 14657-14685.	1.9	41
36	Modeling of the solar radiative impact of biomass burning aerosols during the Dust and Biomass-burning Experiment (DABEX). Journal of Geophysical Research, 2008, 113, .	3.3	34

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37	Ensembles of Global Climate Model Variants Designed for the Quantification and Constraint of Uncertainty in Aerosols and Their Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3728-3754.	1.3	33
38	Assessment of the Met Office dust forecast model using observations from the GERBILS campaign. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1131-1148.	1.0	31
39	Simulation of aerosol radiative effects over West Africa during DABEX and AMMA SOP-0. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	29
40	Aircraft observations and model simulations of concentration and particle size distribution in the Eyjafjallajökull volcanic ash cloud. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1277-1291.	1.9	29
41	Are Changes in Atmospheric Circulation Important for Black Carbon Aerosol Impacts on Clouds, Precipitation, and Radiation?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7930-7950.	1.2	29
42	Assessment of pre-industrial to present-day anthropogenic climate forcing in UKESM1. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1211-1243.	1.9	29
43	On the vertical distribution of smoke in the Amazonian atmosphere during the dry season. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2155-2174.	1.9	28
44	Vertical structure of aerosols and water vapor over West Africa during the African monsoon dry season. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8017-8038.	1.9	27
45	Transformation and ageing of biomass burning carbonaceous aerosol over tropical South America from aircraft in situ measurements during SAMBBA. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5309-5326.	1.9	26
46	Vertical and spatial distribution of dust from aircraft and satellite measurements during the GERBILS field campaign. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	25
47	Climate models generally underrepresent the warming by Central Africa biomass-burning aerosols over the Southeast Atlantic. <i>Science Advances</i> , 2021, 7, eabg9998.	4.7	25
48	The Semidirect Aerosol Effect: Comparison of a Single-Column Model with Large Eddy Simulation for Marine Stratocumulus. <i>Journal of Climate</i> , 2005, 18, 119-130.	1.2	24
49	Models transport Saharan dust too low in the atmosphere: a comparison of the MetUM and CAMS forecasts with observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12955-12982.	1.9	24
50	Multi-sensor satellite remote sensing of dust aerosols over North Africa during GERBILS. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1168-1178.	1.0	23
51	Assessing hazards to aviation from sulfur dioxide emitted by explosive Icelandic eruptions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 14,180.	1.2	23
52	Effects of forcing differences and initial conditions on inter-model agreement in the VolMIP volc-pinatubo-full experiment. <i>Geoscientific Model Development</i> , 2022, 15, 2265-2292.	1.3	22
53	Do Regional Aerosols Contribute to the Riverine Export of Dissolved Black Carbon?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2925-2938.	1.3	21
54	Near-field emission profiling of tropical forest and Cerrado fires in Brazil during SAMBBA 2012. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5619-5638.	1.9	19

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55	The vertical distribution of biomass burning pollution over tropical South America from aircraft in situ measurements during SAMBBA. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5771-5790.	1.9	19
56	Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8381-8404.	1.9	18
57	Environmental Controls on the Riverine Export of Dissolved Black Carbon. <i>Global Biogeochemical Cycles</i> , 2019, 33, 849-874.	1.9	16
58	Reappraisal of the Climate Impacts of Ozone-depleting Substances. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088295.	1.5	16
59	Forecasting the monsoon on daily to seasonal time-scales in support of a field campaign. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 2906-2927.	1.0	13
60	Satellite remote sensing analysis of the 2010 Eyjafjallajökull volcanic ash cloud over the North Sea during 4-18 May 2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10
61	Regional Features of Long-Term Exposure to PM2.5 Air Quality over Asia under SSP Scenarios Based on CMIP6 Models. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6817.	1.2	10
62	Evaluation of a new 12-km regional perturbed parameter ensemble over Europe. <i>Climate Dynamics</i> , 2022, 58, 879-903.	1.7	10
63	Exploring the sensitivity of atmospheric nitrate concentrations to nitric acid uptake rate using the Met Office's Unified Model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15901-15927.	1.9	10
64	Multiplatform analysis of the radiative effects and heating rates for an intense dust storm on 21 June 2007. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9316-9329.	1.2	8
65	Overview of the South American biomass burning analysis (SAMBBA) field experiment. , 2013, , .		5
66	The Impacts of Aerosol Emissions on Historical Climate in UKESM1. <i>Atmosphere</i> , 2020, 11, 1095.	1.0	5
67	Assessing the consequences of including aerosol absorption in potential stratospheric aerosol injection climate intervention strategies. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6135-6150.	1.9	3
68	Observed aerosol characteristics to improve forward-modelled attenuated backscatter in urban areas. <i>Atmospheric Environment</i> , 2020, 224, 117177.	1.9	1