

# Zak Kipling

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,716  
citations

430754

18  
h-index

501076

28  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2726  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of methane emissions from hotspots and during COVID-19 using a global atmospheric inversion. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5961-5981.	1.9	11
2	Description and evaluation of the tropospheric aerosol scheme in the Integrated Forecasting System (IFS-AER, cycle 47R1) of ECMWF. <i>Geoscientific Model Development</i> , 2022, 15, 4881-4912.	1.3	8
3	AeroCom phase III multi-model evaluation of the aerosol life cycle and optical properties using ground- and space-based remote sensing as well as surface in situ observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 87-128.	1.9	96
4	Evaluation of ECMWF IFS-AER (CAM5) operational forecasts during cycle 41r1â€“46r1 with calibrated ceilometer profiles over Germany. <i>Geoscientific Model Development</i> , 2021, 14, 1721-1751.	1.3	4
5	Aerosol absorption in global models from AeroCom phase III. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15929-15947.	1.9	27
6	Global response of parameterised convective cloud fields to anthropogenic aerosol forcing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4445-4460.	1.9	2
7	An aerosol climatology for global models based on the tropospheric aerosol scheme in the Integrated Forecasting System of ECMWF. <i>Geoscientific Model Development</i> , 2020, 13, 1007-1034.	1.3	40
8	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
9	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
10	Evaluation of climate model aerosol trends with ground-based observations over the last 2â€“decades â€“ an AeroCom and CMIP6 analysis. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13355-13378.	1.9	38
11	Revisiting the relationship between Atlantic dust and tropical cyclone activity using aerosol optical depth reanalyses: 2003â€“2018. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15357-15378.	1.9	19
12	Representing model uncertainty for global atmospheric CO&lt;sub&gt;2&lt;/sub&gt; flux inversions using ECMWF-IFS-46R1. <i>Geoscientific Model Development</i> , 2020, 13, 2297-2313.	1.3	14
13	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. <i>Geoscientific Model Development</i> , 2020, 13, 6383-6423.	1.3	83
14	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
15	The CAMS reanalysis of atmospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3515-3556.	1.9	524
16	Current state of the global operational aerosol multiâ€“model ensemble: An update from the International Cooperative for Aerosol Prediction (ICAP). <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 176-209.	1.0	66
17	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). <i>Geoscientific Model Development</i> , 2019, 12, 4627-4659.	1.3	71
18	How Well Can We Represent the Spectrum of Convective Clouds in a Climate Model? Comparisons between Internal Parameterization Variables and Radar Observations. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 1509-1524.	0.6	15

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19	The Use of Satellite Data in the Copernicus Atmosphere Monitoring Service (Cams). , 2018, , .		3
20	Uncertainty from the choice of microphysics scheme in convection-permitting models significantly exceeds aerosol effects. Atmospheric Chemistry and Physics, 2017, 17, 12145-12175.	1.9	46
21	Dynamic subgrid heterogeneity of convective cloud in a global model: description and evaluation of the Convective Cloud Field Model (CCFM) in ECHAM6&#x2013;HAM2. Atmospheric Chemistry and Physics, 2017, 17, 327-342.	1.9	21
22	Community Intercomparison Suite (CIS) v1.4.0: a tool for intercomparing models and observations. Geoscientific Model Development, 2016, 9, 3093-3110.	1.3	33
23	On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models. Atmospheric Chemistry and Physics, 2016, 16, 2765-2783.	1.9	67
24	What controls the vertical distribution of aerosol? Relationships between process sensitivity in HadGEM3&#x2013;UKCA and inter-model variation from AeroCom Phase II. Atmospheric Chemistry and Physics, 2016, 16, 2221-2241.	1.9	82
25	Challenges in constraining anthropogenic aerosol effects on cloud radiative forcing using present-day spatiotemporal variability. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5804-5811.	3.3	120
26	Wet scavenging limits the detection of aerosol effects on precipitation. Atmospheric Chemistry and Physics, 2015, 15, 7557-7570.	1.9	46
27	The importance of vertical velocity variability for estimates of the indirect aerosol effects. Atmospheric Chemistry and Physics, 2014, 14, 6369-6393.	1.9	73
28	Constraints on aerosol processes in climate models from vertically-resolved aircraft observations of black carbon. Atmospheric Chemistry and Physics, 2013, 13, 5969-5986.	1.9	79
29	Spatiotemporal Behavior of the TIGGE Medium-Range Ensemble Forecasts. Monthly Weather Review, 2011, 139, 2561-2571.	0.5	2