

Claudia Timmreck

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

3,982
citations

172386

29
h-index

168321

53
g-index

104
all docs

104
docs citations

104
times ranked

5052
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Sensitivity of regional monsoons to idealised equatorial volcanic eruption of different sulfur emission strengths. <i>Environmental Research Letters</i> , 2022, 17, 054001.	2.2	5
3	Volcanic effects on climate: recent advances and future avenues. <i>Bulletin of Volcanology</i> , 2022, 84, .	1.1	32
4	Was there a volcanic-induced long-lasting cooling over the Northern Hemisphere in the mid-6thâ€“7th century?. <i>Climate of the Past</i> , 2022, 18, 1601-1623.	1.3	10
5	Decadal Disruption of the QBO by Tropical Volcanic Supereruptions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089687.	1.5	13
6	Simulation of ash clouds after a Laacher See-type eruption. <i>Climate of the Past</i> , 2021, 17, 633-652.	1.3	11
7	Model physics and chemistry causing intermodel disagreement within the VolMIP-Tambora Interactive Stratospheric Aerosol ensemble. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3317-3343.	1.9	33
8	The Climate Response to Emissions Reductions Due to COVIDâ€“19: Initial Results From CovidMIP. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091883.	1.5	43
9	The impact of volcanic eruptions of different magnitude on stratospheric water vapor in the tropics. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6565-6591.	1.9	9
10	The Arctic Polar Vortex Response to Volcanic Forcing of Different Strengths. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034450.	1.2	12
11	The unidentified eruption of 1809: a climatic cold case. <i>Climate of the Past</i> , 2021, 17, 1455-1482.	1.3	19
12	Changes in stratospheric aerosol extinction coefficient after the 2018Â“Ambae eruption as seen by OMPS-LP and MAECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14871-14891.	1.9	7
13	Disentangling Internal and External Contributions to Atlantic Multidecadal Variability Over the Past Millennium. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095990.	1.5	17
14	Robust Multiyear Climate Impacts of Volcanic Eruptions in Decadal Prediction Systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031739.	1.2	15
15	The Research Unit VollImpact: Revisiting the volcanic impact on atmosphere and climateÂ“ preparations for the next big volcanic eruption. <i>Meteorologische Zeitschrift</i> , 2020, 29, 3-18.	0.5	20
16	Simulated Tropical Precipitation Assessed across Three Major Phases of the Coupled Model Intercomparison Project (CMIP). <i>Monthly Weather Review</i> , 2020, 148, 3653-3680.	0.5	92
17	Disentangling the causes of the 1816 European year without a summer. <i>Environmental Research Letters</i> , 2019, 14, 094019.	2.2	13
18	Revisiting the Agung 1963 volcanic forcing â€“ impact of one or two eruptions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10379-10390.	1.9	6

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19	Disproportionately strong climate forcing from extratropical explosive volcanic eruptions. <i>Nature Geoscience</i> , 2019, 12, 100-107.	5.4	79
20	Clarifying the Relative Role of Forcing Uncertainties and Initial Condition Unknowns in Spreading the Climate Response to Volcanic Eruptions. <i>Geophysical Research Letters</i> , 2019, 46, 1602-1611.	1.5	32
21	Multi-model comparison of the volcanic sulfate deposition from the 1815 eruption of Mt. Tambora. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2307-2328.	1.9	41
22	Assessing the impact of a future volcanic eruption on decadal predictions. <i>Earth System Dynamics</i> , 2018, 9, 701-715.	2.7	9
23	The Interactive Stratospheric Aerosol Model Intercomparison Project (ISA-MIP): motivation and experimental design. <i>Geoscientific Model Development</i> , 2018, 11, 2581-2608.	1.3	57
24	The PMIP4 contribution to CMIP6 – Part 3: The last millennium, scientific objective, and experimental design for the PMIP4 <i>past1000</i> simulations. <i>Geoscientific Model Development</i> , 2017, 10, 4005-4033.	1.3	155
25	Toward predicting volcanically-forced decadal climate variability. <i>Past Global Change Magazine</i> , 2017, 25, 25-31.	0.4	1
26	Easy Volcanic Aerosol (EVA v1.0): an idealized forcing generator for climate simulations. <i>Geoscientific Model Development</i> , 2016, 9, 4049-4070.	1.3	63
27	The Model Intercomparison Project on the climatic response to Volcanic forcing (VolMIP): experimental design and forcing input data for CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 2701-2719.	1.3	138
28	Stratospheric aerosol-Observations, processes, and impact on climate. <i>Reviews of Geophysics</i> , 2016, 54, 278-335.	9.0	265
29	Tambora 1815 as a test case for high impact volcanic eruptions: Earth system effects. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016, 7, 569-589.	3.6	105
30	MiKlip: A National Research Project on Decadal Climate Prediction. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2379-2394.	1.7	78
31	Using a large ensemble of simulations to assess the Northern Hemisphere stratospheric dynamical response to tropical volcanic eruptions and its uncertainty. <i>Geophysical Research Letters</i> , 2016, 43, 9324-9332.	1.5	75
32	The impact of stratospheric volcanic aerosol on decadal-scale climate predictions. <i>Geophysical Research Letters</i> , 2016, 43, 834-842.	1.5	39
33	Radiative and climate impacts of a large volcanic eruption during stratospheric sulfur geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 305-323.	1.9	40
34	The impact of wave-mean flow interaction on the Northern Hemisphere polar vortex after tropical volcanic eruptions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5281-5297.	1.2	26
35	Quasi-biennial oscillation of the tropical stratospheric aerosol layer. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5557-5584.	1.9	24
36	What is the limit of climate engineering by stratospheric injection of SO ₂ ? <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9129-9141.	1.9	111

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37	Modelling of mineral dust for interglacial and glacial climate conditions with a focus on Antarctica. <i>Climate of the Past</i> , 2015, 11, 765-779.	1.3	20
38	Inter-hemispheric asymmetry in the sea-ice response to volcanic forcing simulated by MPI-ESM (COSMOS-Mill). <i>Earth System Dynamics</i> , 2014, 5, 223-242.	2.7	27
39	Observational constraints on the tropospheric and near-surface winter signature of the Northern Hemisphere stratospheric polar vortex. <i>Climate Dynamics</i> , 2014, 43, 3245-3266.	1.7	30
40	The impact of volcanic aerosol on the Northern Hemisphere stratospheric polar vortex: mechanisms and sensitivity to forcing structure. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13063-13079.	1.9	53
41	Background conditions influence the decadal climate response to strong volcanic eruptions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4090-4106.	1.2	86
42	Delayed winter warming: A robust decadal response to strong tropical volcanic eruptions?. <i>Geophysical Research Letters</i> , 2013, 40, 204-209.	1.5	48
43	Climate and carbon cycle changes from 1850 to 2100 in MPI-ESM simulations for the Coupled Model Intercomparison Project phase 5. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 572-597.	1.3	1,280
44	Volcanic sulfate deposition to Greenland and Antarctica: A modeling sensitivity study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4788-4800.	1.2	33
45	Impact of an extremely large magnitude volcanic eruption on the global climate and carbon cycle estimated from ensemble Earth System Model simulations. <i>Biogeosciences</i> , 2013, 10, 669-687.	1.3	22
46	Climate response to the Toba super-eruption: Regional changes. <i>Quaternary International</i> , 2012, 258, 30-44.	0.7	68
47	Tree rings and volcanic cooling. <i>Nature Geoscience</i> , 2012, 5, 836-837.	5.4	137
48	Sensitivity of a coupled climate-carbon cycle model to large volcanic eruptions during the last millennium. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2010, 62, 674-681.	0.8	50
49	Aerosol size confines climate response to volcanic super-eruptions. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	124
50	Limited temperature response to the very large AD 1258 volcanic eruption. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	143
51	Aerosol chemistry interactions after the Mt. Pinatubo eruption. <i>Geophysical Monograph Series</i> , 2003, , 213-225.	0.1	17
52	Three-dimensional simulation of stratospheric background aerosol: First results of a multiannual general circulation model simulation. <i>Journal of Geophysical Research</i> , 2001, 106, 28313-28332.	3.3	33
53	A one and half year interactive MA/ECHAM4 simulation of Mount Pinatubo Aerosol. <i>Journal of Geophysical Research</i> , 1999, 104, 9337-9359.	3.3	47