

Jadwiga H Richter

List of Publications by Year in descending order

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74
papers

4,873
citations

126907

33
h-index

98798

67
g-index

84
all docs

84
docs citations

84
times ranked

4135
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mean Climate of the Community Atmosphere Model (CAM4) in Forced SST and Fully Coupled Experiments. <i>Journal of Climate</i> , 2013, 26, 5150-5168.	3.2	639
2	The Impact of Convection on ENSO: From a Delayed Oscillator to a Series of Events. <i>Journal of Climate</i> , 2008, 21, 5904-5924.	3.2	532
3	Toward a Physically Based Gravity Wave Source Parameterization in a General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 136-156.	1.7	374
4	Effects of Convective Momentum Transport on the Atmospheric Circulation in the Community Atmosphere Model, Version 3. <i>Journal of Climate</i> , 2008, 21, 1487-1499.	3.2	265
5	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	3.3	261
6	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2377-2411.	3.8	168
7	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	144
8	CESM1(WACCM) Stratospheric Aerosol Geoengineering Large Ensemble Project. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 2361-2371.	3.3	129
9	Radiative and Chemical Response to Interactive Stratospheric Sulfate Aerosols in Fully Coupled CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13,061.	3.3	128
10	WACCM simulations of the mean circulation and trace species transport in the winter mesosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	123
11	First Simulations of Designing Stratospheric Sulfate Aerosol Geoengineering to Meet Multiple Simultaneous Climate Objectives. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,616.	3.3	114
12	The Climate Response to Stratospheric Aerosol Geoengineering Can Be Tailored Using Multiple Injection Locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,574.	3.3	95
13	Initialized Earth System prediction from subseasonal to decadal timescales. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 340-357.	29.7	85
14	Overview of experiment design and comparison of models participating in phase 1 of the SPARC Quasi-Biennial Oscillation initiative (QBOi). <i>Geoscientific Model Development</i> , 2018, 11, 1009-1032.	3.6	81
15	Sensitivity of Aerosol Distribution and Climate Response to Stratospheric SO ₂ Injection Locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,591.	3.3	79
16	Distinguishing Stratospheric Sudden Warmings from ENSO as Key Drivers of Wintertime Climate Variability over the North Atlantic and Eurasia. <i>Journal of Climate</i> , 2017, 30, 1959-1969.	3.2	77
17	The Regional Hydroclimate Response to Stratospheric Sulfate Geoengineering and the Role of Stratospheric Heating. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12587-12616.	3.3	73
18	Stratospheric Dynamical Response and Ozone Feedbacks in the Presence of SO ₂ Injections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,557.	3.3	69

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19	On the simulation of the quasi-biennial oscillation in the Community Atmosphere Model, version 5. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3045-3062.	3.3	66
20	Dynamics of the middle atmosphere as simulated by the Whole Atmosphere Community Climate Model, version 3 (WACCM3). <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	60
21	Progress in Simulating the Quasi-Biennial Oscillation in CMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032362.	3.3	59
22	Effects of Different Stratospheric SO ₂ Injection Altitudes on Stratospheric Chemistry and Dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4654-4673.	3.3	58
23	Comparing Surface and Stratospheric Impacts of Geoengineering With Different SO ₂ Injection Strategies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7900-7918.	3.3	56
24	An Evaluation of the Large-scale Atmospheric Circulation and Its Variability in CESM2 and Other CMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032835.	3.3	55
25	On the Momentum Budget of the Quasi-Biennial Oscillation in the Whole Atmosphere Community Climate Model. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 69-87.	1.7	52
26	Effects of stratospheric variability on El Niño teleconnections. <i>Environmental Research Letters</i> , 2015, 10, 124021.	5.2	47
27	Structure of the migrating diurnal tide in the Whole Atmosphere Community Climate Model (WACCM). <i>Advances in Space Research</i> , 2008, 41, 1398-1407.	2.6	46
28	Evaluation of the Quasi-Biennial Oscillation in global climate models for the SPARC QBO initiative. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1459-1489.	2.7	41
29	Stratospheric Sulfate Aerosol Geoengineering Could Alter the High-Latitude Seasonal Cycle. <i>Geophysical Research Letters</i> , 2019, 46, 14153-14163.	4.0	40
30	Soil Moisture and Other Hydrological Changes in a Stratospheric Aerosol Geoengineering Large Ensemble. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12773-12793.	3.3	38
31	On the forcing of the Mesospheric Semi-Annual Oscillation in the Whole Atmosphere Community Climate Model. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	37
32	Effects of vertical resolution and nonorographic gravity wave drag on the simulated climate in the Community Atmosphere Model, version 5. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 357-383.	3.8	36
33	Response of the Quasi-Biennial Oscillation to a warming climate in global climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1490-1518.	2.7	36
34	Timescale for Detecting the Climate Response to Stratospheric Aerosol Geoengineering. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1233-1247.	3.3	34
35	The Lack of QBO-MJO Connection in CMIP6 Models. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087295.	4.0	34
36	Reduced Poleward Transport Due to Stratospheric Heating Under Stratospheric Aerosols Geoengineering. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089470.	4.0	32

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37	Influence of the quasi-biennial oscillation and El Niño–Southern Oscillation on the frequency of sudden stratospheric warmings. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
38	Generation and Trapping of Gravity Waves from Convection with Comparison to Parameterization. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2963-2977.	1.7	29
39	Simulations of the response of mesospheric circulation and temperature to the Antarctic ozone hole. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	29
40	Persistent polar ocean warming in a strategically geoengineered climate. <i>Nature Geoscience</i> , 2018, 11, 910-914.	12.9	29
41	Seasonal Injection Strategies for Stratospheric Aerosol Geoengineering. <i>Geophysical Research Letters</i> , 2019, 46, 7790-7799.	4.0	29
42	An evaluation of tropical waves and wave forcing of the QBO in the QBOi models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1541-1567.	2.7	29
43	Insignificant QBO–MJO Prediction Skill Relationship in the SubX and S2S Subseasonal Reforecasts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12655-12666.	3.3	27
44	Seasonally Modulated Stratospheric Aerosol Geoengineering Alters the Climate Outcomes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088337.	4.0	27
45	An Analysis of Gravity Wave Spectral Characteristics in Moist Baroclinic Jet–Front Systems. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3133-3155.	1.7	26
46	Characteristics of Gravity Waves from Convection and Implications for Their Parameterization in Global Circulation Models. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 2729-2742.	1.7	24
47	QBO Changes in CMIP6 Climate Projections. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086903.	4.0	24
48	Long-range prediction and the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2601-2623.	4.9	24
49	Teleconnections of the Quasi–Biennial Oscillation in a multi–model ensemble of QBO–resolving models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1568-1592.	2.7	23
50	Differing responses of the quasi-biennial oscillation to artificial SO ₂ injections in two global models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8975-8987.	4.9	19
51	Subseasonal Earth System Prediction with CESM2. <i>Weather and Forecasting</i> , 2022, 37, 797-815.	1.4	18
52	Response of Surface Ultraviolet and Visible Radiation to Stratospheric SO ₂ Injections. <i>Atmosphere</i> , 2018, 9, 432.	2.3	17
53	Stratospheric Response in the First Geoengineering Simulation Meeting Multiple Surface Climate Objectives. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5762-5782.	3.3	17
54	Limited surface impacts of the January 2021 sudden stratospheric warming. <i>Nature Communications</i> , 2022, 13, 1136.	12.8	17

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55	Improved Simulation of the QBO in E3SMv1. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3403-3418.	3.8	15
56	Characteristics of Future Warmer Base States in CESM2. <i>Earth and Space Science</i> , 2020, 7, e2020EA001296.	2.6	14
57	Effects of Organized Convection Parameterization on the MJO and Precipitation in E3SMv1. Part I: Mesoscale Heating. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002401.	3.8	14
58	The Simulation of Stratospheric Water Vapor Over the Asian Summer Monsoon in CESM1(WACCM) Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11377-11391.	3.3	13
59	Sensitivity of Total Column Ozone to Stratospheric Sulfur Injection Strategies. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094058.	4.0	13
60	The equatorial stratospheric semiannual oscillation and time-averaged winds in QBOi models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1593-1609.	2.7	12
61	Variability of the Stratospheric Quasi-Biennial Oscillation and Its Wave Forcing Simulated in the Beijing Climate Center Atmospheric General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 149-165.	1.7	10
62	Subseasonal Prediction with and without a Well-Represented Stratosphere in CESM1. <i>Weather and Forecasting</i> , 2020, 35, 2589-2602.	1.4	10
63	An objective analysis of the QBO in ERA-Interim and the Community Atmosphere Model, version 5. <i>Geophysical Research Letters</i> , 2014, 41, 7791-7798.	4.0	8
64	Assessing terrestrial biogeochemical feedbacks in a strategically geoengineered climate. <i>Environmental Research Letters</i> , 2020, 15, 104043.	5.2	8
65	Observational Validation of Parameterized Gravity Waves From Tropical Convection in the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033954.	3.3	7
66	Limitations of assuming internal mixing between different aerosol species: a case study with sulfate geoengineering simulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1739-1756.	4.9	6
67	Stratospheric Nudging And Predictable Surface Impacts (SNAPSI): a protocol for investigating the role of stratospheric polar vortex disturbances in subseasonal to seasonal forecasts. <i>Geoscientific Model Development</i> , 2022, 15, 5073-5092.	3.6	6
68	Attribution of NAO Predictive Skill Beyond 2 Weeks in Boreal Winter. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090451.	4.0	4
69	A Positive Zonal Wind Feedback on Sudden Stratospheric Warming Development Revealed by CESM2 (WACCM6) Reforecasts. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090863.	4.0	4
70	Using TRMM Latent Heat as a Source to Estimate Convection Induced Gravity Wave Momentum Flux in the Lower Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, e2021JD035785.	3.3	3
71	The impact of the QBO on the region of the tropical tropopause in QBOi models: Present-day simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1945-1964.	2.7	3
72	Holistic Assessment of SO ₂ Injections Using CESM1(WACCM): Introduction to the Special Issue. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 444-450.	3.3	2

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73	Atmospheric rivers impacting western North America in a world with climate intervention. Npj Climate and Atmospheric Science, 2022, 5, .	6.8	2
74	Predictability of the Mesosphere and Lower Thermosphere During Major Sudden Stratospheric Warmings. Geophysical Research Letters, 2021, 48, e2021GL093716.	4.0	1