

Chaim Garfinkel

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92
papers

3,136
citations

31
h-index

54
g-index

161
ext. papers

3,903
ext. citations

5.6
avg, IF

6.06
L-index

#	Paper	IF	Citations
92	Storm track processes and the opposing influences of climate change. <i>Nature Geoscience</i> , 2016 , 9, 656-668	6.3	240
91	Tropospheric Precursors of Anomalous Northern Hemisphere Stratospheric Polar Vortices. <i>Journal of Climate</i> , 2010 , 23, 3282-3299	4.4	201
90	Different ENSO teleconnections and their effects on the stratospheric polar vortex. <i>Journal of Geophysical Research</i> , 2008 , 113,		171
89	Effects of the El Niño Southern Oscillation and the Quasi-Biennial Oscillation on polar temperatures in the stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		150
88	The Teleconnection of El Niño Southern Oscillation to the Stratosphere. <i>Reviews of Geophysics</i> , 2019 , 57, 5-47	23.1	139
87	Observed connection between stratospheric sudden warmings and the Madden-Julian Oscillation. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	109
86	Does the Holton-Mann Mechanism Explain How the Quasi-Biennial Oscillation Modulates the Arctic Polar Vortex?. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 1713-1733	2.1	94
85	The Effect of Tropospheric Jet Latitude on Coupling between the Stratospheric Polar Vortex and the Troposphere. <i>Journal of Climate</i> , 2013 , 26, 2077-2095	4.4	88
84	Sudden Stratospheric Warmings. <i>Reviews of Geophysics</i> , 2021 , 59,	23.1	78
83	Modifications of the quasi-biennial oscillation by a geoengineering perturbation of the stratospheric aerosol layer. <i>Geophysical Research Letters</i> , 2014 , 41, 1738-1744	4.9	77
82	On the influence of North Pacific sea surface temperature on the Arctic winter climate. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		74
81	Impact of the MJO on the boreal winter extratropical circulation. <i>Geophysical Research Letters</i> , 2014 , 41, 6055-6062	4.9	71
80	Are the teleconnections of Central Pacific and Eastern Pacific El Niño distinct in boreal wintertime?. <i>Climate Dynamics</i> , 2013 , 41, 1835-1852	4.2	70
79	Drivers of the Recent Tropical Expansion in the Southern Hemisphere: Changing SSTs or Ozone Depletion?. <i>Journal of Climate</i> , 2015 , 28, 6581-6586	4.4	70
78	Why might stratospheric sudden warmings occur with similar frequency in El Niño and La Niña winters?. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		68
77	The Influence of the Quasi-Biennial Oscillation on the Troposphere in Winter in a Hierarchy of Models. Part I: Simplified Dry GCMs. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 1273-1289	2.1	61
76	Recent Hadley cell expansion: The role of internal atmospheric variability in reconciling modeled and observed trends. <i>Geophysical Research Letters</i> , 2015 , 42, 10,824-10,831	4.9	58

75	The Role of the Stratosphere in Subseasonal to Seasonal Prediction: 2. Predictability Arising From Stratosphere-Troposphere Coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030923	4.4	56
74	Extra-tropical atmospheric response to ENSO in the CMIP5 models. <i>Climate Dynamics</i> , 2014 , 43, 3367-3376	4.6	54
73	The Arctic vortex in March 2011: a dynamical perspective. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11447-11453	6.8	54
72	Influence of the quasi-biennial oscillation on the North Pacific and El Niño teleconnections. <i>Journal of Geophysical Research</i> , 2010 , 115,		54
71	The Downward Influence of Sudden Stratospheric Warmings: Association with Tropospheric Precursors. <i>Journal of Climate</i> , 2019 , 32, 85-108	4.4	54
70	The 2019 New Year Stratospheric Sudden Warming and Its Real-Time Predictions in Multiple S2S Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 11155-11174	4.4	49
69	Stratospheric variability contributed to and sustained the recent hiatus in Eurasian winter warming. <i>Geophysical Research Letters</i> , 2017 , 44, 374-382	4.9	49
68	The Influence of the Quasi-Biennial Oscillation on the Troposphere in Winter in a Hierarchy of Models. Part II: Perpetual Winter WACCM Runs. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 2026-2041 ^{2,1}	4.1	43
67	Predicting the Downward and Surface Influence of the February 2018 and January 2019 Sudden Stratospheric Warming Events in Subseasonal to Seasonal (S2S) Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031919	4.4	41
66	MJO-Related Tropical Convection Anomalies Lead to More Accurate Stratospheric Vortex Variability in Subseasonal Forecast Models. <i>Geophysical Research Letters</i> , 2017 , 44, 10054-10062	4.9	39
65	Temperature trends in the tropical upper troposphere and lower stratosphere: Connections with sea surface temperatures and implications for water vapor and ozone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9658-9672	4.4	38
64	The Southern Hemisphere Minor Sudden Stratospheric Warming in September 2019 and its Predictions in S2S Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032723	4.4	36
63	Extratropical Atmospheric Predictability From the Quasi-Biennial Oscillation in Subseasonal Forecast Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 7855-7866	4.4	36
62	The Role of the Stratosphere in Subseasonal to Seasonal Prediction: 1. Predictability of the Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030920	4.4	34
61	Tropospheric jet response to Antarctic ozone depletion: An update with Chemistry-Climate Model Initiative (CCMI) models. <i>Environmental Research Letters</i> , 2018 , 13, 054024	6.2	30
60	Relative roles of the MJO and stratospheric variability in North Atlantic and European winter climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4184-4201	4.4	28
59	Sub-seasonal Predictability and the Stratosphere 2019 , 223-241		28
58	Contrasting Effects of Central Pacific and Eastern Pacific El Niño on stratospheric water vapor. <i>Geophysical Research Letters</i> , 2013 , 40, 4115-4120	4.9	27

57	Nonlinear response of tropical lower stratospheric temperature and water vapor to ENSO. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4597-4615	6.8	26
56	Effect of recent sea surface temperature trends on the Arctic stratospheric vortex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5404-5416	4.4	25
55	Improvement of the GEOS-5 AGCM upon updating the air-sea roughness parameterization. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	25
54	Northern Hemisphere Stratospheric Pathway of Different El Niño Flavors in Stratosphere-Resolving CMIP5 Models. <i>Journal of Climate</i> , 2017 , 30, 4351-4371	4.4	24
53	Time-varying changes in the simulated structure of the Brewer-Dobson Circulation. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1313-1327	6.8	22
52	Linking Arctic variability and change with extreme winter weather in the United States. <i>Science</i> , 2021 , 373, 1116-1121	33.3	22
51	The Non-Gaussianity and Spatial Asymmetry of Temperature Extremes Relative to the Storm Track: The Role of Horizontal Advection. <i>Journal of Climate</i> , 2017 , 30, 445-464	4.4	21
50	The Building Blocks of Northern Hemisphere Wintertime Stationary Waves. <i>Journal of Climate</i> , 2020 , 33, 5611-5633	4.4	20
49	Impact of the Quasi-Biennial Oscillation on the Northern Winter Stratospheric Polar Vortex in CMIP5/6 Models. <i>Journal of Climate</i> , 2020 , 33, 4787-4813	4.4	20
48	Robustness of the Simulated Tropospheric Response to Ozone Depletion. <i>Journal of Climate</i> , 2017 , 30, 2577-2585	4.4	19
47	Modulation of the Northern Winter Stratospheric El Niño-Southern Oscillation Teleconnection by the PDO. <i>Journal of Climate</i> , 2019 , 32, 5761-5783	4.4	19
46	The salience of nonlinearities in the boreal winter response to ENSO: North Pacific and North America. <i>Climate Dynamics</i> , 2019 , 52, 4429-4446	4.2	18
45	The salience of nonlinearities in the boreal winter response to ENSO: Arctic stratosphere and Europe. <i>Climate Dynamics</i> , 2019 , 53, 4591-4610	4.2	17
44	A Census of Atmospheric Variability From Seconds to Decades. <i>Geophysical Research Letters</i> , 2017 , 44, 11,201	4.9	17
43	Arctic Ozone Loss in March 2020 and its Seasonal Prediction in CFSv2: A Comparative Study With the 1997 and 2011 Cases. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033524	4.4	17
42	Weakening of the Teleconnection From El Niño-Southern Oscillation to the Arctic Stratosphere Over the Past Few Decades: What Can Be Learned From Subseasonal Forecast Models?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7683-7696	4.4	15
41	The Generic Nature of the Tropospheric Response to Sudden Stratospheric Warmings. <i>Journal of Climate</i> , 2020 , 33, 5589-5610	4.4	15
40	CMIP5/6 models project little change in the statistical characteristics of sudden stratospheric warmings in the 21st century. <i>Environmental Research Letters</i> , 2021 , 16, 034024	6.2	15

39	Tropospheric Rossby Wave Breaking and Variability of the Latitude of the Eddy-Driven Jet. <i>Journal of Climate</i> , 2014 , 27, 7069-7085	4.4	13
38	Effect of Gravity Waves From Small Islands in the Southern Ocean on the Southern Hemisphere Atmospheric Circulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 1552-1561	4.4	11
37	How Does the Quasi-Biennial Oscillation Affect the Boreal Winter Tropospheric Circulation in CMIP5/6 Models?. <i>Journal of Climate</i> , 2020 , 33, 8975-8996	4.4	11
36	Predictability of the early winter Arctic oscillation from autumn Eurasian snowcover in subseasonal forecast models. <i>Climate Dynamics</i> , 2020 , 55, 961-974	4.2	10
35	Might stratospheric variability lead to improved predictability of ENSO events?. <i>Environmental Research Letters</i> , 2017 , 12, 031001	6.2	10
34	Connections between the Spring Breakup of the Southern Hemisphere Polar Vortex, Stationary Waves, and AirSea Roughness. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 2137-2151	2.1	10
33	Sensitivity of the atmospheric response to warm pool El Niño events to modeled SSTs and future climate forcings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 13,371-13,382	4.4	10
32	The Role of Zonally Averaged Climate Change in Contributing to Intermodel Spread in CMIP5 Predicted Local Precipitation Changes. <i>Journal of Climate</i> , 2020 , 33, 1141-1154	4.4	10
31	Influence of Arctic stratospheric ozone on surface climate in CCM1 models. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9253-9268	6.8	9
30	Classification of eastward propagating waves on the spherical Earth. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 1554-1564	6.4	9
29	Troposphere-Stratosphere Coupling in Subseasonal-to-Seasonal Models and Its Importance for a Realistic Extratropical Response to the Madden-Julian Oscillation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032043	4.4	8
28	Stratospheric response to intraseasonal changes in incoming solar radiation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7648-7660	4.4	8
27	The Impact of SST Biases in the Tropical East Pacific and Agulhas Current Region on Atmospheric Stationary Waves in the Southern Hemisphere. <i>Journal of Climate</i> , 2020 , 33, 9351-9374	4.4	8
26	Toward Narrowing Uncertainty in Future Projections of Local Extreme Precipitation. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091823	4.9	7
25	Projected changes of stratospheric final warmings in the Northern and Southern Hemispheres by CMIP5/6 models. <i>Climate Dynamics</i> , 2021 , 56, 3353-3371	4.2	6
24	The January 2021 Sudden Stratospheric Warming and Its Prediction in Subseasonal to Seasonal Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035057	4.4	5
23	The Strong Stratospheric Polar Vortex in March 2020 in Sub-Seasonal to Seasonal Models: Implications for Empirical Prediction of the Low Arctic Total Ozone Extreme. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034190	4.4	5
22	The influence of jet stream regime on extreme weather events79-94		4

21	Barotropic Impacts of Surface Friction on Eddy Kinetic Energy and Momentum Fluxes: An Alternative to the Barotropic Governor. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 3028-3039	2.1	4
20	Projected Strengthening of the Extratropical Surface Impacts of the Stratospheric Quasi-Biennial Oscillation. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089149	4.9	4
19	The Impact of Split and Displacement Sudden Stratospheric Warmings on the Troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033989	4.4	4
18	The mixed Rossby-gravity wave on the spherical Earth. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 1820-1830	6.4	4
17	Nonlinear response of tropical lower stratospheric temperature and water vapor to ENSO		3
16	A QBO cookbook: Sensitivity of the Quasi-Biennial Oscillation to resolution, resolved waves, and parameterized gravity waves. <i>Journal of Advances in Modeling Earth Systems</i> , e2021MS002568	7.1	3
15	Transient Extratropical Response to Solar Ultraviolet Radiation in the Northern Hemisphere Winter. <i>Journal of Climate</i> , 2021 , 34, 3367-3383	4.4	3
14	Nonlinear Interaction Between the Drivers of the Monsoon and Summertime Stationary Waves. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092321	4.9	3
13	Long-range prediction and the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 2601-2623	6.8	3
12	Sudden Stratospheric Warmings		2
11	Barotropic modes, baroclinic modes and equivalent depths in the atmosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 , 146, 2096-2115	6.4	2
10	The Efficiency of Upward Wave Propagation Near the Tropopause: importance of the form of the refractive index. <i>Journals of the Atmospheric Sciences</i> , 2021 ,	2.1	2
9	Time varying changes in the simulated structure of the Brewer Dobson Circulation 2016 ,		1
8	Reduced Rainfall in Future Heavy Precipitation Events Related to Contracted Rain Area Despite Increased Rain Rate. <i>Earth's Future</i> , e2021EF002397	7.9	1
7	The Arctic vortex in March 2011: a dynamical perspective		1
6	Influence of the El Niño Southern Oscillation on entry stratospheric water vapor in coupled chemistry-ocean CCM1 and CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3725-3740	6.8	1
5	Planetary, inertia-gravity and Kelvin waves on the f-plane and E-plane in the presence of a uniform zonal flow. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021 , 147, 2935-2952	6.4	1
4	Barotropic instability of a zonal jet on the sphere: from non-divergence through quasi-geostrophy to shallow water. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2021 , 115, 15-34	1.4	1

3	Mean State of the Northern Hemisphere Stratospheric Polar Vortex in Three Generations of CMIP Models. <i>Journal of Climate</i> , 2022 , 1-49	4.4	1
2	Arctic change reduces risk of cold extremes-Response.. <i>Science</i> , 2022 , 375, 729-730	33.3	0
1	Waves on the equatorial E-plane in the presence of a uniform zonal flow: Beyond the Doppler shift. <i>Physics of Fluids</i> , 2022 , 34, 046603	4.4	0