

# Chaim Garfinkel

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

4,813  
citations

109321

35  
h-index

106344

65  
g-index

161  
all docs

161  
docs citations

161  
times ranked

2917  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2022, 14, e2021MS002568.	3.8	16
2	Reduced Rainfall in Future Heavy Precipitation Events Related to Contracted Rain Area Despite Increased Rain Rate. <i>Earth's Future</i> , 2022, 10, e2021EF002397.	6.3	9
3	Advances in the Prediction of MJO Teleconnections in the S2S Forecast Systems. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E1426-E1447.	3.3	17
4	Long-range prediction and the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2601-2623.	4.9	24
5	Arctic change reduces risk of cold extremes—Response. <i>Science</i> , 2022, 375, 729-730.	12.6	2
6	Mean State of the Northern Hemisphere Stratospheric Polar Vortex in Three Generations of CMIP Models. <i>Journal of Climate</i> , 2022, 35, 4603-4625.	3.2	15
7	Influence of the Quasi-Biennial Oscillation on the Spatial Structure of the Wintertime Arctic Oscillation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	6
8	Waves on the equatorial $\hat{r}^2$ -plane in the presence of a uniform zonal flow: Beyond the Doppler shift. <i>Physics of Fluids</i> , 2022, 34, .	4.0	1
9	Impact of stratospheric ozone on the subseasonal prediction in the southern hemisphere spring. <i>Progress in Earth and Planetary Science</i> , 2022, 9, .	3.0	7
10	Uncertainty in Projected Changes in Precipitation Minus Evaporation: Dominant Role of Dynamic Circulation Changes and Weak Role for Thermodynamic Changes. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	12
11	The roles of the Quasi-Biennial Oscillation and El Niño for entry stratospheric water vapor in observations and coupled chemistry-ocean CCM1 and CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7523-7538.	4.9	6
12	Stationary wave biases and their effect on upward troposphere-stratosphere coupling in sub-seasonal prediction models. <i>Weather and Climate Dynamics</i> , 2022, 3, 679-692.	3.5	4
13	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
14	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.	1.2	2
15	Sudden Stratospheric Warmings. <i>Reviews of Geophysics</i> , 2021, 59, .	23.0	204
16	Projected changes of stratospheric final warmings in the Northern and Southern Hemispheres by CMIP5/6 models. <i>Climate Dynamics</i> , 2021, 56, 3353-3371.	3.8	23
17	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.	5.2	33
18	Toward Narrowing Uncertainty in Future Projections of Local Extreme Precipitation. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091823.	4.0	17

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19	Tropical background and wave spectra: contribution of wave-wave interactions in a moderately nonlinear turbulent flow. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	3
20	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.	4.9	8
21	The power distribution between symmetric and anti-symmetric components of the tropical wavenumber-frequency spectrum. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	3
22	The Strong Stratospheric Polar Vortex in March 2020 in Subseasonal 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.	3.3	17
23	The Impact of Split and Displacement Sudden Stratospheric Warmings on the Troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033989.	3.3	14
24	Transient Extratropical Response to Solar Ultraviolet Radiation in the Northern Hemisphere Winter. <i>Journal of Climate</i> , 2021, 34, 3367-3383.	3.2	4
25	Planetary, inertia–gravity and Kelvin waves on the $f$ -plane and $f^2$ -plane in the presence of a uniform zonal flow. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 2935-2952.	2.7	3
26	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, 78, 2605-2617.	1.7	9
27	Development of the Extratropical Response to the Stratospheric Quasi-Biennial Oscillation. <i>Journal of Climate</i> , 2021, , 1-44.	3.2	7
28	Nonlinear Interaction Between the Drivers of the Monsoon and Summertime Stationary Waves. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092321.	4.0	4
29	A note on the power distribution between symmetric and anti-symmetric components of the tropical Brightness Temperature spectrum in the wavenumber-frequency plane. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	0
30	Linking Arctic variability and change with extreme winter weather in the United States. <i>Science</i> , 2021, 373, 1116-1121.	12.6	145
31	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.	3.3	26
32	On the tropospheric response to transient stratospheric momentum torques. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	1
33	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.	3.3	78
34	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.	3.2	14
35	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.	3.3	119
36	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.	3.3	40

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37	Projected Strengthening of the Extratropical Surface Impacts of the Stratospheric Quasi-Biennial Oscillation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089149.	4.0	16
38	Barotropic modes, baroclinic modes and equivalent depths in the atmosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 2096-2115.	2.7	5
39	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.	3.3	63
40	Predictability of the early winter Arctic oscillation from autumn Eurasian snowcover in subseasonal forecast models. <i>Climate Dynamics</i> , 2020, 55, 961-974.	3.8	14
41	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.	3.3	19
42	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.	3.3	72
43	The Building Blocks of Northern Hemisphere Wintertime Stationary Waves. <i>Journal of Climate</i> , 2020, 33, 5611-5633.	3.2	43
44	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.	3.2	38
45	The Generic Nature of the Tropospheric Response to Sudden Stratospheric Warmings. <i>Journal of Climate</i> , 2020, 33, 5589-5610.	3.2	26
46	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.	3.2	32
47	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.	3.2	12
48	Influence of Arctic stratospheric ozone on surface climate in CCM1 models. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9253-9268.	4.9	15
49	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.	3.3	17
50	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.	3.3	77
51	The salience of nonlinearities in the boreal winter response to ENSO: Arctic stratosphere and Europe. <i>Climate Dynamics</i> , 2019, 53, 4591-4610.	3.8	30
52	Modulation of the Northern Winter Stratospheric El Niño-Southern Oscillation Teleconnection by the PDO. <i>Journal of Climate</i> , 2019, 32, 5761-5783.	3.2	29
53	The salience of nonlinearities in the boreal winter response to ENSO: North Pacific and North America. <i>Climate Dynamics</i> , 2019, 52, 4429-4446.	3.8	27
54	The Teleconnection of El Niño Southern Oscillation to the Stratosphere. <i>Reviews of Geophysics</i> , 2019, 57, 5-47.	23.0	245

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55	The Downward Influence of Sudden Stratospheric Warmings: Association with Tropospheric Precursors. <i>Journal of Climate</i> , 2019, 32, 85-108.	3.2	75
56	Sub-seasonal Predictability and the Stratosphere. , 2019, , 223-241.		41
57	Nonlinear response of tropical lower-stratospheric temperature and water vapor to ENSO. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4597-4615.	4.9	36
58	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.	3.3	19
59	The mixed Rossbyâ€“gravity wave on the spherical Earth. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1820-1830.	2.7	9
60	Extratropical Atmospheric Predictability From the Quasiâ€“Biennial Oscillation in Subseasonal Forecast Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7855-7866.	3.3	53
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.	5.2	38
62	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.	3.2	36
63	Northern Hemisphere Stratospheric Pathway of Different El NiÃ±o Flavors in Stratosphere-Resolving CMIP5 Models. <i>Journal of Climate</i> , 2017, 30, 4351-4371.	3.2	34
64	Robustness of the Simulated Tropospheric Response to Ozone Depletion. <i>Journal of Climate</i> , 2017, 30, 2577-2585.	3.2	21
65	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.	3.3	39
66	MJOâ€“Related Tropical Convection Anomalies Lead to More Accurate Stratospheric Vortex Variability in Subseasonal Forecast Models. <i>Geophysical Research Letters</i> , 2017, 44, 10054-10062.	4.0	49
67	Classification of eastward propagating waves on the spherical Earth. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1554-1564.	2.7	14
68	A Census of Atmospheric Variability From Seconds to Decades. <i>Geophysical Research Letters</i> , 2017, 44, 11,201.	4.0	28
69	Stratospheric variability contributed to and sustained the recent hiatus in Eurasian winter warming. <i>Geophysical Research Letters</i> , 2017, 44, 374-382.	4.0	82
70	Might stratospheric variability lead to improved predictability of ENSO events?. <i>Environmental Research Letters</i> , 2017, 12, 031001.	5.2	13
71	Time-varying changes in the simulated structure of the Brewerâ€“Dobson Circulation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1313-1327.	4.9	30
72	Storm track processes and the opposing influences of climate change. <i>Nature Geoscience</i> , 2016, 9, 656-664.	12.9	370

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73	The influence of jet stream regime on extreme weather events. , 2016, , 79-94.		5
74	Stratospheric response to intraseasonal changes in incoming solar radiation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7648-7660.	3.3	12
75	Recent Hadley cell expansion: The role of internal atmospheric variability in reconciling modeled and observed trends. Geophysical Research Letters, 2015, 42, 10,824.	4.0	62
76	Effect of recent sea surface temperature trends on the Arctic stratospheric vortex. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5404-5416.	3.3	30
77	Drivers of the Recent Tropical Expansion in the Southern Hemisphere: Changing SSTs or Ozone Depletion?. Journal of Climate, 2015, 28, 6581-6586.	3.2	83
78	Tropospheric Rossby Wave Breaking and Variability of the Latitude of the Eddy-Driven Jet. Journal of Climate, 2014, 27, 7069-7085.	3.2	16
79	Extra-tropical atmospheric response to ENSO in the CMIP5 models. Climate Dynamics, 2014, 43, 3367-3376.	3.8	67
80	Modifications of the quasi-biennial oscillation by a geoengineering perturbation of the stratospheric aerosol layer. Geophysical Research Letters, 2014, 41, 1738-1744.	4.0	90
81	Impact of the MJO on the boreal winter extratropical circulation. Geophysical Research Letters, 2014, 41, 6055-6062.	4.0	90
82	Are the teleconnections of Central Pacific and Eastern Pacific El Niño distinct in boreal wintertime?. Climate Dynamics, 2013, 41, 1835-1852.	3.8	83
83	The Effect of Tropospheric Jet Latitude on Coupling between the Stratospheric Polar Vortex and the Troposphere. Journal of Climate, 2013, 26, 2077-2095.	3.2	98
84	Contrasting Effects of Central Pacific and Eastern Pacific El Niño on stratospheric water vapor. Geophysical Research Letters, 2013, 40, 4115-4120.	4.0	33
85	Connections between the Spring Breakup of the Southern Hemisphere Polar Vortex, Stationary Waves, and Air-Sea Roughness. Journals of the Atmospheric Sciences, 2013, 70, 2137-2151.	1.7	10
86	Sensitivity of the atmospheric response to warm pool El Niño events to modeled SSTs and future climate forcings. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,371.	3.3	12
87	Temperature trends in the tropical upper troposphere and lower stratosphere: Connections with sea surface temperatures and implications for water vapor and ozone. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9658-9672.	3.3	47
88	Does the Holton-Tan Mechanism Explain How the Quasi-Biennial Oscillation Modulates the Arctic Polar Vortex?. Journals of the Atmospheric Sciences, 2012, 69, 1713-1733.	1.7	135
89	Barotropic Impacts of Surface Friction on Eddy Kinetic Energy and Momentum Fluxes: An Alternative to the Barotropic Governor. Journals of the Atmospheric Sciences, 2012, 69, 3028-3039.	1.7	4
90	Observed connection between stratospheric sudden warmings and the Madden-Julian Oscillation. Geophysical Research Letters, 2012, 39, .	4.0	128

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91	On the influence of North Pacific sea surface temperature on the Arctic winter climate. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	92
92	Why might stratospheric sudden warmings occur with similar frequency in El Niño and La Niña winters?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	75
93	Improvement of the GEOS-5 AGCM upon updating the air-sea roughness parameterization. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	27
94	The Arctic vortex in March 2011: a dynamical perspective. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11447-11453.	4.9	60
95	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.	1.7	94
96	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.	1.7	67
97	Tropospheric Precursors of Anomalous Northern Hemisphere Stratospheric Polar Vortices. <i>Journal of Climate</i> , 2010, 23, 3282-3299.	3.2	246
98	Influence of the quasi-biennial oscillation on the North Pacific and El Niño teleconnections. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
99	Different ENSO teleconnections and their effects on the stratospheric polar vortex. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	214
100	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, .	3.3	182