

Paul J Kushner

List of Publications by Year in descending order

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97
papers

12,535
citations

66315

42
h-index

38368

95
g-index

115
all docs

115
docs citations

115
times ranked

10785
citing authors

#	ARTICLE	IF	CITATIONS
1	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1339-1360.	1.7	1,848
2	The Community Earth System Model (CESM) Large Ensemble Project: A Community Resource for Studying Climate Change in the Presence of Internal Climate Variability. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1333-1349.	1.7	1,723
3	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. <i>Journal of Climate</i> , 2006, 19, 643-674.	1.2	1,431
4	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	1.3	935
5	Signatures of the Antarctic ozone hole in Southern Hemisphere surface climate change. <i>Nature Geoscience</i> , 2011, 4, 741-749.	5.4	781
6	The New GFDL Global Atmosphere and Land Model AM2â€œLM2: Evaluation with Prescribed SST Simulations. <i>Journal of Climate</i> , 2004, 17, 4641-4673.	1.2	756
7	Southern Hemisphere Atmospheric Circulation Response to Global Warming. <i>Journal of Climate</i> , 2001, 14, 2238-2249.	1.2	366
8	Stratosphereâ€œTroposphere Coupling and Links with Eurasian Land Surface Variability. <i>Journal of Climate</i> , 2007, 20, 5335-5343.	1.2	280
9	Tropospheric response to stratospheric perturbations in a relatively simple general circulation model. <i>Geophysical Research Letters</i> , 2002, 29, 18-1.	1.5	274
10	Consistency and discrepancy in the atmospheric response to Arctic sea-ice loss across climate models. <i>Nature Geoscience</i> , 2018, 11, 155-163.	5.4	265
11	Quantifying climate feedbacks in polar regions. <i>Nature Communications</i> , 2018, 9, 1919.	5.8	254
12	Stratosphereâ€œTroposphere Coupling in a Relatively Simple AGCM: The Role of Eddies. <i>Journal of Climate</i> , 2004, 17, 629-639.	1.2	171
13	Characterization of Northern Hemisphere Snow Water Equivalent Datasets, 1981â€œ2010. <i>Journal of Climate</i> , 2015, 28, 8037-8051.	1.2	151
14	A Mechanism and Simple Dynamical Model of the North Atlantic Oscillation and Annular Modes. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 264-280.	0.6	143
15	Multimodel climate and variability of the stratosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	139
16	Snowâ€œatmosphere coupling in the Northern Hemisphere. <i>Nature Climate Change</i> , 2018, 8, 954-963.	8.1	139
17	A robust empirical seasonal prediction of winter NAO and surface climate. <i>Scientific Reports</i> , 2017, 7, 279.	1.6	120
18	Review of simulations of climate variability and change with the GFDL R30 coupled climate model. <i>Climate Dynamics</i> , 2002, 19, 555-574.	1.7	119

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19	The Role of Linear Interference in the Annular Mode Response to Tropical SST Forcing. <i>Journal of Climate</i> , 2011, 24, 778-794.	1.2	115
20	The Dynamical Response to Snow Cover Perturbations in a Large Ensemble of Atmospheric GCM Integrations. <i>Journal of Climate</i> , 2009, 22, 1208-1222.	1.2	113
21	Canadian snow and sea ice: historical trends and projections. <i>Cryosphere</i> , 2018, 12, 1157-1176.	1.5	95
22	Climate-related variations in mixing dynamics in an Alaskan arctic lake. <i>Limnology and Oceanography</i> , 2009, 54, 2401-2417.	1.6	92
23	Snow cover response to temperature in observational and climate model ensembles. <i>Geophysical Research Letters</i> , 2017, 44, 919-926.	1.5	90
24	Isolating the Atmospheric Circulation Response to Arctic Sea Ice Loss in the Coupled Climate System. <i>Journal of Climate</i> , 2017, 30, 2163-2185.	1.2	87
25	The Role of Linear Interference in the Annular Mode Response to Extratropical Surface Forcing. <i>Journal of Climate</i> , 2010, 23, 6036-6050.	1.2	85
26	The Transient and Equilibrium Climate Response to Rapid Summertime Sea Ice Loss in CCSM4. <i>Journal of Climate</i> , 2016, 29, 401-417.	1.2	84
27	Investigating the ability of general circulation models to capture the effects of Eurasian snow cover on winter climate. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	80
28	Impact of the stratosphere on tropospheric climate change. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	80
29	Variability and change in the Canadian cryosphere. <i>Climatic Change</i> , 2012, 115, 59-88.	1.7	79
30	Dynamics of Barotropic Storm Tracks. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 791-810.	0.6	77
31	Summertime climate response to mountain pine beetle disturbance in British Columbia. <i>Nature Geoscience</i> , 2013, 6, 65-70.	5.4	77
32	Linear interference and the initiation of extratropical stratosphere-troposphere interactions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	76
33	Power-Law and Long-Memory Characteristics of the Atmospheric General Circulation. <i>Journal of Climate</i> , 2009, 22, 2890-2904.	1.2	71
34	Constrained work output of the moist atmospheric heat engine in a warming climate. <i>Science</i> , 2015, 347, 540-543.	6.0	66
35	Regional variability of a projected sea ice-free Arctic during the summer months. <i>Geophysical Research Letters</i> , 2016, 43, 256-263.	1.5	66
36	Remarkable separability of circulation response to Arctic sea ice loss and greenhouse gas forcing. <i>Geophysical Research Letters</i> , 2017, 44, 7955-7964.	1.5	63

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37	The Role of Linear Interference in Northern Annular Mode Variability Associated with Eurasian Snow Cover Extent. <i>Journal of Climate</i> , 2011, 24, 6185-6202.	1.2	58
38	Does External Forcing Interfere with the AMOC's Influence on North Atlantic Sea Surface Temperature?. <i>Journal of Climate</i> , 2015, 28, 6309-6323.	1.2	57
39	Sea ice and atmospheric circulation shape the high-latitude lapse rate feedback. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	2.6	49
40	Using models and satellite observations to evaluate the strength of snow albedo feedback. <i>Journal of Geophysical Research</i> , 2012, 117, n/a-n/a.	3.3	47
41	The Coupled Stratosphere-Troposphere Response to Impulsive Forcing from the Troposphere. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 3337-3352.	0.6	45
42	Circulation responses to snow albedo feedback in climate change. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	45
43	Stratospheric control of the extratropical circulation response to surface forcing. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	41
44	Interpreting observed northern hemisphere snow trends with large ensembles of climate simulations. <i>Climate Dynamics</i> , 2014, 43, 345-359.	1.7	39
45	A test, using atmospheric data, of a method for estimating oceanic eddy diffusivity. <i>Geophysical Research Letters</i> , 1998, 25, 4213-4216.	1.5	36
46	The Global Stationary Wave Response to Climate Change in a Coupled GCM. <i>Journal of Climate</i> , 2004, 17, 540-556.	1.2	36
47	Impact of sudden Arctic sea-ice loss on stratospheric polar ozone recovery. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	35
48	The Structure and Composition of the Annular Modes in an Aquaplanet General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 3399-3414.	0.6	33
49	Modeling and understanding persistence of climate variability. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	29
50	Stratosphere-Troposphere Coupling in a Relatively Simple AGCM: Impact of the Seasonal Cycle. <i>Journal of Climate</i> , 2006, 19, 5721-5727.	1.2	28
51	Agreement in late twentieth century Southern Hemisphere stratospheric temperature trends in observations and CCMVal2, CMIP3, and CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 605-613.	1.2	27
52	Canadian snow and sea ice: assessment of snow, sea ice, and related climate processes in Canada's Earth system model and climate-prediction system. <i>Cryosphere</i> , 2018, 12, 1137-1156.	1.5	27
53	Reassessing Sea Ice Drift and Its Relationship to Long-Term Arctic Sea Ice Loss in Coupled Climate Models. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4338-4359.	1.0	26
54	No Impact of Anthropogenic Aerosols on Early 21st Century Global Temperature Trends in a Large Initial-Condition Ensemble. <i>Geophysical Research Letters</i> , 2018, 45, 9245-9252.	1.5	25

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55	Zonal Asymmetries, Teleconnections, and Annular Patterns in a GCM. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 207-219.	0.6	24
56	A Very Large, Spontaneous Stratospheric Sudden Warming in a Simple AGCM: A Prototype for the Southern Hemisphere Warming of 2002?. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 890-897.	0.6	23
57	On the origins of temporal power-law behavior in the global atmospheric circulation. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	22
58	Wave-activity conservation laws and stability theorems for semi-geostrophic dynamics. Part 2. Pseudoenergy-based theory. <i>Journal of Fluid Mechanics</i> , 1995, 290, 105-129.	1.4	20
59	Coupled Kelvin-Wave and Mirage-Wave Instabilities in Semigeostrophic Dynamics. <i>Journal of Physical Oceanography</i> , 1998, 28, 513-518.	0.7	20
60	Wave-activity conservation laws and stability theorems for semi-geostrophic dynamics. Part 1. Pseudomomentum-based theory. <i>Journal of Fluid Mechanics</i> , 1995, 290, 67-104.	1.4	19
61	Ientropic constraints by midlatitude surface warming on the Arctic midtroposphere. <i>Geophysical Research Letters</i> , 2013, 40, 606-611.	1.5	19
62	The Role of Extratropical Ocean Warming in the Coupled Climate Response to Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2018, 31, 9193-9206.	1.2	18
63	On the Relative Robustness of the Climate Response to High-Latitude and Low-Latitude Warming. <i>Geophysical Research Letters</i> , 2018, 45, 6232-6241.	1.5	17
64	Anthropogenic Aerosols Dominate Forced Multidecadal Sahel Precipitation Change through Distinct Atmospheric and Oceanic Drivers. <i>Journal of Climate</i> , 2020, 33, 10187-10204.	1.2	16
65	Putting computation on a par with experiments and theory in the undergraduate physics curriculum. <i>American Journal of Physics</i> , 2011, 79, 919-924.	0.3	14
66	Linear interference and the Northern Annular Mode response to tropical SST forcing: Sensitivity to model configuration. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4267-4279.	1.2	14
67	Diagnosing the stratosphere-troposphere stationary wave response to climate change in a general circulation model. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	13
68	Midlatitude Moisture Contribution to Recent Arctic Tropospheric Summertime Variability*. <i>Journal of Climate</i> , 2014, 27, 5693-5707.	1.2	13
69	Constraining Reanalysis Snowfall Over the Arctic Ocean Using CloudSat Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086426.	1.5	13
70	Decomposition of Atmospheric Disturbances into Standing and Traveling Components, with Application to Northern Hemisphere Planetary Waves and Stratosphere-Troposphere Coupling. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 787-802.	0.6	12
71	Assessment of the aerodynamic performance of unconventional building shapes using 3D steady RANS with SST k-1% turbulence model. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 225, 104988.	1.7	12
72	Resolving the Regional Signature of the Annular Modes. <i>Journal of Climate</i> , 2007, 20, 2840-2852.	1.2	11

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73	Discriminating robust and non-robust atmospheric circulation responses to global warming. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	11
74	A method to diagnose sources of annular mode time scales. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	11
75	Southern Hemisphere Stationary Wave Response to Changes of Ozone and Greenhouse Gases. <i>Journal of Climate</i> , 2013, 26, 10205-10217.	1.2	11
76	Opposite Responses of the Dry and Moist Eddy Heat Transport Into the Arctic in the PAMIP Experiments. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089990.	1.5	11
77	Interannual Variability of the Global Meridional Overturning Circulation Dominated by Pacific Variability. <i>Journal of Physical Oceanography</i> , 2020, 50, 559-574.	0.7	10
78	Potential Vorticity Thickness Fluxes and Wave-Mean Flow Interaction. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 948-958.	0.6	9
79	Separating the Influences of Low-Latitude Warming and Sea Ice Loss on Northern Hemisphere Climate Change. <i>Journal of Climate</i> , 2022, 35, 2327-2349.	1.2	9
80	The Role of Standing Waves in Driving Persistent Anomalies of Upward Wave Activity Flux. <i>Journal of Climate</i> , 2015, 28, 9941-9954.	1.2	8
81	Influence of Midlatitude Surface Thermal Anomalies on the Polar Midtroposphere in an Idealized Moist Model. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 1089-1104.	0.6	8
82	Annular modes of the troposphere and stratosphere. <i>Geophysical Monograph Series</i> , 2010, , 59-91.	0.1	8
83	EON-ROSE and the Canadian Cordillera Array "Building Bridges to Span Earth System Science in Canada. <i>Geoscience Canada</i> , 2018, 45, 97-109.	0.3	8
84	Estimating the Anthropogenic Sea Surface Temperature Response Using Pattern Scaling. <i>Journal of Climate</i> , 2015, 28, 3751-3763.	1.2	7
85	Evolving Sahel Rainfall Response to Anthropogenic Aerosols Driven by Shifting Regional Oceanic and Emission Influences. <i>Journal of Climate</i> , 2022, , 1-27.	1.2	7
86	Stability of stiffened cruciform steel columns under shear and compression by the complex finite strip method. <i>Thin-Walled Structures</i> , 2019, 136, 221-234.	2.7	6
87	A generalized Charney-Stern theorem for semi-geostrophic dynamics. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1995, 47, 541-547.	0.8	5
88	Interpreting Stationary Wave Nonlinearity in Barotropic Dynamics. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2240-2250.	0.6	5
89	Estimating the Continental Response to Global Warming Using Pattern-Scaled Sea Surface Temperatures and Sea Ice. <i>Journal of Climate</i> , 2016, 29, 9125-9139.	1.2	4
90	Limited Influence of Localized Tropical Sea-Surface Temperatures on Moisture Transport into the Arctic. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091540.	1.5	4

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91	A generalized Charneyâ€”Stern theorem for semi-geostrophic dynamics. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1995, 47, 541-547.	0.8	3
92	Comment on “On the presence of annular variability in an aquaplanet model” by Masahiro Watanabe. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	3
93	Why are Temperature and Upward Wave Activity Flux Positively Skewed in the Polar Stratosphere?. <i>Journal of Climate</i> , 2018, 31, 115-130.	1.2	3
94	Towards a Computational Workflow for Studying the Effects of Climate Change on Wind Loads on High-Rise Buildings in Urban Areas. <i>Atmosphere - Ocean</i> , 2022, 60, 124-140.	0.6	2
95	Using “heat tagging”™ to understand the remote influence of atmospheric diabatic heating through long-range transport. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	0.6	1
96	Cold Temperature Limits to Biodiesel Use under Present and Future Climates in North America. <i>Environmental Science & Technology</i> , 2022, 56, 8640-8649.	4.6	1
97	North American Earth Science Megaproject Continuum, Part 3: New Canadian EONâ€”ROSE Program. <i>Acta Geologica Sinica</i> , 2019, 93, 12-13.	0.8	0