Paul J Kushner

List of Publications by Year
in descending order

97	12,535	66315	38368
papers	citations	42 h-index	95 g-index

115	115	115	10785
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Separating the Influences of Low-Latitude Warming and Sea Ice Loss on Northern Hemisphere Climate Change. Journal of Climate, 2022, 35, 2327-2349.	1.2	9
2	Evolving Sahel Rainfall Response to Anthropogenic Aerosols Driven by Shifting Regional Oceanic and Emission Influences. Journal of Climate, 2022, , 1-27.	1.2	7
3	Towards a Computational Workflow for Studying the Effects of Climate Change on Wind Loads on High-Rise Buildings in Urban Areas. Atmosphere - Ocean, 2022, 60, 124-140.	0.6	2
4	Assessment of the aerodynamic performance of unconventional building shapes using 3D steady RANS with SST k-Ï‰ turbulence model. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 225, 104988.	1.7	12
5	Cold Temperature Limits to Biodiesel Use under Present and Future Climates in North America. Environmental Science & Technology, 2022, 56, 8640-8649.	4.6	1
6	Using â€˜heat taggingâ€™ to understand the remote influence of atmospheric diabatic heating through long-range transport. Journals of the Atmospheric Sciences, 2021, , .	0.6	1
7	Limited Influence of Localized Tropical Seaâ€Surface Temperatures on Moisture Transport into the Arctic. Geophysical Research Letters, 2021, 48, e2020GL091540.	1.5	4
8	Opposite Responses of the Dry and Moist Eddy Heat Transport Into the Arctic in the PAMIP Experiments. Geophysical Research Letters, 2021, 48, e2020GL089990.	1.5	11
9	Interannual Variability of the Global Meridional Overturning Circulation Dominated by Pacific Variability. Journal of Physical Oceanography, 2020, 50, 559-574.	0.7	10
10	Sea ice and atmospheric circulation shape the high-latitude lapse rate feedback. Npj Climate and Atmospheric Science, 2020, 3, .	2.6	49
11	The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916.	1.3	935
12	Constraining Reanalysis Snowfall Over the Arctic Ocean Using CloudSat Observations. Geophysical Research Letters, 2020, 47, e2019GL086426.	1.5	13
13	Anthropogenic Aerosols Dominate Forced Multidecadal Sahel Precipitation Change through Distinct Atmospheric and Oceanic Drivers. Journal of Climate, 2020, 33, 10187-10204.	1.2	16
14	North American Earth Science Megaproject Continuum, Part 3: New Canadian EONâ€ROSE Program. Acta Geologica Sinica, 2019, 93, 12-13.	0.8	0
15	Stability of stiffened cruciform steel columns under shear and compression by the complex finite strip method. Thin-Walled Structures, 2019, 136, 221-234.	2.7	6
16	Influence of Midlatitude Surface Thermal Anomalies on the Polar Midtroposphere in an Idealized Moist Model. Journals of the Atmospheric Sciences, 2018, 75, 1089-1104.	0.6	8
17	Consistency and discrepancy in the atmospheric response to Arctic sea-ice loss across climate models. Nature Geoscience, 2018, 11, 155-163.	5.4	265
18	Why are Temperature and Upward Wave Activity Flux Positively Skewed in the Polar Stratosphere?. Journal of Climate, 2018, 31, 115-130.	1.2	3

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19	On the Relative Robustness of the Climate Response to Highâ€Latitude and Lowâ€Latitude Warming. Geophysical Research Letters, 2018, 45, 6232-6241.	1.5	17
20	The Role of Extratropical Ocean Warming in the Coupled Climate Response to Arctic Sea Ice Loss. Journal of Climate, 2018, 31, 9193-9206.	1.2	18
21	Snowâ€“atmosphere coupling in the Northern Hemisphere. Nature Climate Change, 2018, 8, 954-963.	8.1	139
22	No Impact of Anthropogenic Aerosols on Early 21st Century Global Temperature Trends in a Large Initialâ€Condition Ensemble. Geophysical Research Letters, 2018, 45, 9245-9252.	1.5	25
23	Quantifying climate feedbacks in polar regions. Nature Communications, 2018, 9, 1919.	5.8	254
24	Canadian snow and sea ice: assessment of snow, sea ice, and related climate processes in Canada's Earth system model and climate-prediction system. Cryosphere, 2018, 12, 1137-1156.	1.5	27
25	Canadian snow and sea ice: historical trends and projections. Cryosphere, 2018, 12, 1157-1176.	1.5	95
26	Reassessing Sea Ice Drift and Its Relationship to Longâ€Term Arctic Sea Ice Loss in Coupled Climate Models. Journal of Geophysical Research: Oceans, 2018, 123, 4338-4359.	1.0	26
27	EON-ROSE and the Canadian Cordillera Array â€“ Building Bridges to Span Earth System Science in Canada. Geoscience Canada, 2018, 45, 97-109.	0.3	8
28	A robust empirical seasonal prediction of winter NAO and surface climate. Scientific Reports, 2017, 7, 279.	1.6	120
29	Remarkable separability of circulation response to Arctic sea ice loss and greenhouse gas forcing. Geophysical Research Letters, 2017, 44, 7955-7964.	1.5	63
30	Snow cover response to temperature in observational and climate model ensembles. Geophysical Research Letters, 2017, 44, 919-926.	1.5	90
31	Isolating the Atmospheric Circulation Response to Arctic Sea Ice Loss in the Coupled Climate System. Journal of Climate, 2017, 30, 2163-2185.	1.2	87
32	Estimating the Continental Response to Global Warming Using Pattern-Scaled Sea Surface Temperatures and Sea Ice. Journal of Climate, 2016, 29, 9125-9139.	1.2	4
33	Regional variability of a projected sea iceâ€free Arctic during the summer months. Geophysical Research Letters, 2016, 43, 256-263.	1.5	66
34	The Transient and Equilibrium Climate Response to Rapid Summertime Sea Ice Loss in CCSM4. Journal of Climate, 2016, 29, 401-417.	1.2	84
35	The Role of Standing Waves in Driving Persistent Anomalies of Upward Wave Activity Flux. Journal of Climate, 2015, 28, 9941-9954.	1.2	8
36	Does External Forcing Interfere with the AMOCâ€™s Influence on North Atlantic Sea Surface Temperature?. Journal of Climate, 2015, 28, 6309-6323.	1.2	57

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37	Characterization of Northern Hemisphere Snow Water Equivalent Datasets, 1981â€“2010. Journal of Climate, 2015, 28, 8037-8051.	1.2	151
38	Decomposition of Atmospheric Disturbances into Standing and Traveling Components, with Application to Northern Hemisphere Planetary Waves and Stratosphereâ€“Troposphere Coupling. Journals of the Atmospheric Sciences, 2015, 72, 787-802.	0.6	12
39	Constrained work output of the moist atmospheric heat engine in a warming climate. Science, 2015, 347, 540-543.	6.0	66
40	Estimating the Anthropogenic Sea Surface Temperature Response Using Pattern Scaling. Journal of Climate, 2015, 28, 3751-3763.	1.2	7
41	The Community Earth System Model (CESM) Large Ensemble Project: A Community Resource for Studying Climate Change in the Presence of Internal Climate Variability. Bulletin of the American Meteorological Society, 2015, 96, 1333-1349.	1.7	1,723
42	Midlatitude Moisture Contribution to Recent Arctic Tropospheric Summertime Variability*. Journal of Climate, 2014, 27, 5693-5707.	1.2	13
43	Interpreting observed northern hemisphere snow trends with large ensembles of climate simulations. Climate Dynamics, 2014, 43, 345-359.	1.7	39
44	The Community Earth System Model: A Framework for Collaborative Research. Bulletin of the American Meteorological Society, 2013, 94, 1339-1360.	1.7	1,848
45	Summertime climate response to mountain pine beetle disturbance in British Columbia. Nature Geoscience, 2013, 6, 65-70.	5.4	77
46	Southern Hemisphere Stationary Wave Response to Changes of Ozone and Greenhouse Gases. Journal of Climate, 2013, 26, 10205-10217.	1.2	11
47	Agreement in late twentieth century Southern Hemisphere stratospheric temperature trends in observations and CCMValâ€2, CMIP3, and CMIP5 models. Journal of Geophysical Research D: Atmospheres, 2013, 118, 605-613.	1.2	27
48	Linear interference and the Northern Annular Mode response to tropical SST forcing: Sensitivity to model configuration. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4267-4279.	1.2	14
49	Isentropic constraints by midlatitude surface warming on the Arctic midtroposphere. Geophysical Research Letters, 2013, 40, 606-611.	1.5	19
50	Variability and change in the Canadian cryosphere. Climatic Change, 2012, 115, 59-88.	1.7	79
51	Linear interference and the initiation of extratropical stratosphereâ€“troposphere interactions. Journal of Geophysical Research, 2012, 117, .	3.3	76
52	Using models and satellite observations to evaluate the strength of snow albedo feedback. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	47
53	Modeling and understanding persistence of climate variability. Journal of Geophysical Research, 2012, 117, .	3.3	29
54	Multimodel climate and variability of the stratosphere. Journal of Geophysical Research, 2011, 116, .	3.3	139

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55	A method to diagnose sources of annular mode time scales. Journal of Geophysical Research, 2011, 116, .	3.3	11
56	Diagnosing the stratosphere-troposphere stationary wave response to climate change in a general circulation model. Journal of Geophysical Research, 2011, 116, .	3.3	13
57	The Role of Linear Interference in Northern Annular Mode Variability Associated with Eurasian Snow Cover Extent. Journal of Climate, 2011, 24, 6185-6202.	1.2	58
58	Signatures of the Antarctic ozone hole in Southern Hemisphere surface climate change. Nature Geoscience, 2011, 4, 741-749.	5.4	781
59	Putting computation on a par with experiments and theory in the undergraduate physics curriculum. American Journal of Physics, 2011, 79, 919-924.	0.3	14
60	The Role of Linear Interference in the Annular Mode Response to Tropical SST Forcing. Journal of Climate, 2011, 24, 778-794.	1.2	115
61	The Role of Linear Interference in the Annular Mode Response to Extratropical Surface Forcing. Journal of Climate, 2010, 23, 6036-6050.	1.2	85
62	Interpreting Stationary Wave Nonlinearity in Barotropic Dynamics. Journals of the Atmospheric Sciences, 2010, 67, 2240-2250.	0.6	5
63	Annular modes of the troposphere and stratosphere. Geophysical Monograph Series, 2010, , 59-91.	0.1	8
64	The Dynamical Response to Snow Cover Perturbations in a Large Ensemble of Atmospheric GCM Integrations. Journal of Climate, 2009, 22, 1208-1222.	1.2	113
65	Power-Law and Long-Memory Characteristics of the Atmospheric General Circulation. Journal of Climate, 2009, 22, 2890-2904.	1.2	71
66	Circulation responses to snow albedo feedback in climate change. Geophysical Research Letters, 2009, 36, .	1.5	45
67	On the origins of temporal powerâ€law behavior in the global atmospheric circulation. Geophysical Research Letters, 2009, 36, .	1.5	22
68	Impact of sudden Arctic seaâ€ice loss on stratospheric polar ozone recovery. Geophysical Research Letters, 2009, 36, .	1.5	35
69	Climateâ€related variations in mixing dynamics in an Alaskan arctic lake. Limnology and Oceanography, 2009, 54, 2401-2417.	1.6	92
70	Investigating the ability of general circulation models to capture the effects of Eurasian snow cover on winter climate. Journal of Geophysical Research, 2008, 113, .	3.3	80
71	Impact of the stratosphere on tropospheric climate change. Geophysical Research Letters, 2008, 35, .	1.5	80
72	Stratosphereâ€“Troposphere Coupling and Links with Eurasian Land Surface Variability. Journal of Climate, 2007, 20, 5335-5343.	1.2	280

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73	Resolving the Regional Signature of the Annular Modes. Journal of Climate, 2007, 20, 2840-2852.	1.2	11
74	Discriminating robust and nonâ€robust atmospheric circulation responses to global warming. Journal of Geophysical Research, 2007, 112, .	3.3	11
75	Stratospheric control of the extratropical circulation response to surface forcing. Geophysical Research Letters, 2007, 34, .	1.5	41
76	Comment on â€œOn the presence of annular variability in an aquaplanet modelâ€•by Masahiro Watanabe. Geophysical Research Letters, 2007, 34, .	1.5	3
77	Stratosphereâ€“Troposphere Coupling in a Relatively Simple AGCM: Impact of the Seasonal Cycle. Journal of Climate, 2006, 19, 5721-5727.	1.2	28
78	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. Journal of Climate, 2006, 19, 643-674.	1.2	1,431
79	A Very Large, Spontaneous Stratospheric Sudden Warming in a Simple AGCM: A Prototype for the Southern Hemisphere Warming of 2002?. Journals of the Atmospheric Sciences, 2005, 62, 890-897.	0.6	23
80	Zonal Asymmetries, Teleconnections, and Annular Patterns in a GCM. Journals of the Atmospheric Sciences, 2005, 62, 207-219.	0.6	24
81	The Coupled Stratosphereâ€“Troposphere Response to Impulsive Forcing from the Troposphere. Journals of the Atmospheric Sciences, 2005, 62, 3337-3352.	0.6	45
82	The New GFDL Global Atmosphere and Land Model AM2â€“LM2: Evaluation with Prescribed SST Simulations. Journal of Climate, 2004, 17, 4641-4673.	1.2	756
83	Stratosphereâ€“Troposphere Coupling in a Relatively Simple AGCM: The Role of Eddies. Journal of Climate, 2004, 17, 629-639.	1.2	171
84	The Global Stationary Wave Response to Climate Change in a Coupled GCM. Journal of Climate, 2004, 17, 540-556.	1.2	36
85	A Mechanism and Simple Dynamical Model of the North Atlantic Oscillation and Annular Modes. Journals of the Atmospheric Sciences, 2004, 61, 264-280.	0.6	143
86	The Structure and Composition of the Annular Modes in an Aquaplanet General Circulation Model. Journals of the Atmospheric Sciences, 2002, 59, 3399-3414.	0.6	33
87	Tropospheric response to stratospheric perturbations in a relatively simple general circulation model. Geophysical Research Letters, 2002, 29, 18-1.	1.5	274
88	Review of simulations of climate variability and change with the GFDL R30 coupled climate model. Climate Dynamics, 2002, 19, 555-574.	1.7	119
89	Southern Hemisphere Atmospheric Circulation Response to Global Warming. Journal of Climate, 2001, 14, 2238-2249.	1.2	366
90	Potential Vorticity Thickness Fluxes and Waveâ€“Mean Flow Interaction. Journals of the Atmospheric Sciences, 1999, 56, 948-958.	0.6	9

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91	A test, using atmospheric data, of a method for estimating oceanic eddy diffusivity. Geophysical Research Letters, 1998, 25, 4213-4216.	1.5	36
92	Coupled Kelvin-Wave and Mirage-Wave Instabilities in Semigeostrophic Dynamics. Journal of Physical Oceanography, 1998, 28, 513-518.	0.7	20
93	Dynamics of Barotropic Storm Tracks. Journals of the Atmospheric Sciences, 1997, 54, 791-810.	0.6	77
94	A generalized Charney-Stern theorem for semi-geostrophic dynamics. Tellus, Series A: Dynamic Meteorology and Oceanography, 1995, 47, 541-547.	0.8	5
95	A generalized Charneyâ€"Stern theorem for semi-geostrophic dynamics. Tellus, Series A: Dynamic Meteorology and Oceanography, 1995, 47, 541-547.	0.8	3
96	Wave-activity conservation laws and stability theorems for semi-geostrophic dynamics. Part 1. Pseudomomentum-based theory. Journal of Fluid Mechanics, 1995, 290, 67-104.	1.4	19
97	Wave-activity conservation laws and stability theorems for semi-geostrophic dynamics. Part 2. Pseudoenergy-based theory. Journal of Fluid Mechanics, 1995, 290, 105-129.	1.4	20