Stephen J Vavrus

List of Publications by Year
in descending order

44	4,139	201674 27	265206 42
papers	citations	h-index	g-index

48	48	48	5477
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence linking Arctic amplification to extreme weather in midâ€latitudes. Geophysical Research Letters, 2012, 39, .	4.0	1,268
2	Evidence for a wavier jet stream in response to rapid Arctic warming. Environmental Research Letters, 2015, 10, 014005.	5.2	417
3	Climate Change and Waterborne Disease Risk in the Great Lakes Region of the U.S.. American Journal of Preventive Medicine, 2008, 35, 451-458.	3.0	186
4	Relationships between Arctic Sea Ice and Clouds during Autumn. Journal of Climate, 2008, 21, 4799-4810.	3.2	179
5	The Impact of Cloud Feedbacks on Arctic Climate under Greenhouse Forcing*. Journal of Climate, 2004, 17, 603-615.	3.2	166
6	Late Holocene climate: Natural or anthropogenic?. Reviews of Geophysics, 2016, 54, 93-118.	23.0	150
7	Measuring the sensitivity of southern Wisconsin lake ice to climate variations and lake depth using a numerical model. Limnology and Oceanography, 1996, 41, 822-831.	3.1	124
8	Amplified Arctic warming and midâ€latitude weather: new perspectives on emerging connections. Wiley Interdisciplinary Reviews: Climate Change, 2017, 8, e474.	8.1	120
9	The role of terrestrial snow cover in the climate system. Climate Dynamics, 2007, 29, 73-88.	3.8	118
10	Twenty-First-Century Arctic Climate Change in CCSM4. Journal of Climate, 2012, 25, 2696-2710.	3.2	112
11	Recent accelerated warming of the Laurentian Great Lakes: Physical drivers. Limnology and Oceanography, 2016, 61, 1762-1786.	3.1	97
12	Simulations of 20th and 21st century Arctic cloud amount in the global climate models assessed in the IPCC AR4. Climate Dynamics, 2009, 33, 1099-1115.	3.8	96
13	An Improved Parameterization for Simulating Arctic Cloud Amount in the CCSM3 Climate Model. Journal of Climate, 2008, 21, 5673-5687.	3.2	83
14	Patterns of Climate Change Across Wisconsin From 1950 to 2006. Physical Geography, 2010, 31, 1-28.	1.4	80
15	A cloudier Arctic expected with diminishing sea ice. Geophysical Research Letters, 2012, 39, .	4.0	78
16	A Characterization of the Present-Day Arctic Atmosphere in CCSM4. Journal of Climate, 2012, 25, 2676-2695.	3.2	77
17	Sinuosity of midlatitude atmospheric flow in a warming world. Geophysical Research Letters, 2016, 43, 8259-8268.	4.0	74
18	Changes in North American Atmospheric Circulation and Extreme Weather: Influence of Arctic Amplification and Northern Hemisphere Snow Cover. Journal of Climate, 2017, 30, 4317-4333.	3.2	71

#	Article	IF	Citations
19	Changes in Arctic clouds during intervals of rapid sea ice loss. Climate Dynamics, 2011, 36, 1475-1489.	3.8	68
20	The Influence of Arctic Amplification on Mid-latitude Weather and Climate. Current Climate Change Reports, 2018, 4, 238-249.	8.6	59
21	Climate model simulation of anthropogenic influence on greenhouse-induced climate change (early) Tj ETQq1 1 0.784314 rgBT /Over	3.6	53
22	Identifying climatic analogs for Wisconsin under 21st-century climate-change scenarios. Climatic Change, 2012, 112, 1037-1058.	3.6	48
23	North American Weather Regimes Are Becoming More Persistent: Is Arctic Amplification a Factor?. Geophysical Research Letters, 2018, 45, 11,414.	4.0	48
24	Simulated 21st century changes in regional water balance of the Great Lakes region and links to changes in global temperature and poleward moisture transport. Geophysical Research Letters, 2005, 32, .	4.0	39
25	Projected future temperature and precipitation extremes in Chicago. Journal of Great Lakes Research, 2010, 36, 22-32.	1.9	37
26	Extreme Arctic cyclones in CMIP5 historical simulations. Geophysical Research Letters, 2013, 40, 6208-6212.	4.0	35
27	Factors Influencing Simulated Changes in Future Arctic Cloudiness. Journal of Climate, 2011, 24, 4817-4830.	3.2	29
28	Interpreting climate model projections of extreme weather events. Weather and Climate Extremes, 2015, 10, 10-28.	4.1	26
29	A comparison of projected future precipitation in Wisconsin using global and downscaled climate model simulations: implications for public health. International Journal of Climatology, 2014, 34, 3106-3124.	3.5	24
30	Wind amplifies the polar sea ice retreat. Environmental Research Letters, 2020, 15, 124022.	5.2	22
31	Understanding Simulated Extreme Precipitation Events in Madison, Wisconsin, and the Role of Moisture Flux Convergence during the Late Twentieth and Twenty-First Centuries*. Journal of Hydrometeorology, 2012, 13, 877-894.	1.9	21
32	Spatially variable warming of the Laurentian Great Lakes: an interaction of bathymetry and climate. Climate Dynamics, 2019, 52, 5833-5848.	3.8	21
33	The role of GCM resolution in simulating glacial inception. Holocene, 2011, 21, 819-830.	1.7	17
34	An alternative method to calculate cloud radiative forcing: Implications for quantifying cloud feedbacks. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	15
35	Sensitivity of the Arctic Climate to Leads in a Coupled Atmosphere-Mixed Layer Ocean Model. Journal of Climate, 1995, 8, 158-171.	3.2	14
36	Workshop on Modeling of the Arctic Atmosphere. Bulletin of the American Meteorological Society, 2005, 86, 845-852.	3.3	14

#	Article	IF	Citations
37	Increased persistence of large-scale circulation regimes over Asia in the era of amplified Arctic warming, past and future. Scientific Reports, 2020, 10, 14953.	3.3	13
38	Glacial Inception in Marine Isotope Stage 19: An Orbital Analog for a Natural Holocene Climate. Scientific Reports, 2018, 8, 10213.	3.3	12
39	Sensitivity of the thermohaline circulation to increased CO2and lowered topography. Geophysical Research Letters, 2002, 29, 41-1.	4.0	9
40	Future trends of arctic surface wind speeds and their relationship with sea ice in CMIP5 climate model simulations. Climate Dynamics, 2022, 59, 1833-1848.	3.8	9
41	The role of horizontal thermal advection in regulating wintertime mean and extreme temperatures over interior North America during the past and future. Climate Dynamics, 2019, 53, 6125-6144.	3.8	5
42	Rainy season precipitation forecasts in coastal Peru from the North American <scp>Multiâ€Model</scp> Ensemble. International Journal of Climatology, 2022, 42, 6221-6234.	3.5	4
43	Did agriculture beget agriculture during the past several millennia?. Holocene, 0, , 095968362210882.	1.7	1
44	Rapid neoglaciation on Ellesmere Island promoted by enhanced summer snowfall in a transient climate model simulation of the middle-late-Holocene. Holocene, 2020, 30, 1474-1480.	1.7	0