Christopher P Weaver

List of Publications by Year
in descending order

53 papers	3,083 citations	201674 27 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	4419 citing authors

#	Article	IF	Citations
1	Urban adaptation can roll back warming of emerging megapolitan regions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2909-2914.	7.1	392
2	Key ecological responses to nitrogen are altered by climate change. Nature Climate Change, 2016, 6, 836-843.	18.8	261
3	Improving the contribution of climate model information to decision making: the value and demands of robust decision frameworks. Wiley Interdisciplinary Reviews: Climate Change, 2013, 4, 39-60.	8.1	250
4	Incorporating water table dynamics in climate modeling: 1. Water table observations and equilibrium water table simulations. Journal of Geophysical Research, 2007, 112, .	3.3	227
5	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. Bulletin of the American Meteorological Society, 2009, 90, 1843-1864.	3.3	175
6	Incorporating water table dynamics in climate modeling: 2. Formulation, validation, and soil moisture simulation. Journal of Geophysical Research, 2007, 112, .	3.3	164
7	Atmospheric Disturbances Caused by Human Modification of the Landscape. Bulletin of the American Meteorological Society, 2001, 82, 269-281.	3.3	160
8	Incorporating water table dynamics in climate modeling: 3. Simulated groundwater influence on coupled landâ€atmosphere variability. Journal of Geophysical Research, 2008, 113, .	3.3	125
9	From global change science to action with social sciences. Nature Climate Change, 2014, 4, 656-659.	18.8	95
10	Understanding the Meteorological Drivers of U.S. Particulate Matter Concentrations in a Changing Climate. Bulletin of the American Meteorological Society, 2014, 95, 521-532.	3.3	92
11	Improved Techniques for Evaluating GCM Cloudiness Applied to the NCAR CCM3. Journal of Climate, 2001, 14, 2540-2550.	3.2	85
12	Variation in Estimated Ozone-Related Health Impacts of Climate Change due to Modeling Choices and Assumptions. Environmental Health Perspectives, 2012, 120, 1559-1564.	6.0	74
13	A Framework for Assessing Climate Change Impacts on Water and Watershed Systems. Environmental Management, 2009, 43, 118-134.	2.7	57
14	Cluster analysis of cloud regimes and characteristic dynamics of midlatitude synoptic systems in observations and a model. Journal of Geophysical Research, 2005, 110, .	3.3	56
15	Investigating the Sensitivity of U.S. Streamflow and Water Quality to Climate Change: U.S. EPA Global Change Research Programâ€™s 20 Watersheds Project. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 453-464.	2.6	48
16	Deductions from a simple climate model: Factors governing surface temperature and atmospheric thermal structure. Journal of Geophysical Research, 1995, 100, 11585.	3.3	47
17	Impact of historical land cover change on the July climate of the United States. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	47
18	Modeling Streamflow and Water Quality Sensitivity to Climate Change and Urban Development in 20 U.S. Watersheds. Journal of the American Water Resources Association, 2015, 51, 1321-1341.	2.4	47

#	Article	IF	Citations
19	Relationships between Large-Scale Vertical Velocity, Static Stability, and Cloud Radiative Forcing over Northern Hemisphere Extratropical Oceans*. Journal of Climate, 1997, 10, 2871-2887.	3.2	46
20	A preferred scale for landscape forced mesoscale circulations?. Journal of Geophysical Research, 2003, 108, .	3.3	43
21	Coupling between Large-Scale Atmospheric Processes and Mesoscale Landâ€“Atmosphere Interactions in the U.S. Southern Great Plains during Summer. Part I: Case Studies. Journal of Hydrometeorology, 2004, 5, 1223-1246.	1.9	43
22	Observational Evidence that Great Plains Irrigation Has Enhanced Summer Precipitation Intensity and Totals in the Midwestern United States. Journal of Hydrometeorology, 2015, 16, 1717-1735.	1.9	43
23	Sensitivity of simulated mesoscale atmospheric circulations resulting from landscape heterogeneity to aspects of model configuration. Journal of Geophysical Research, 2002, 107, LBA 8-1.	3.3	36
24	Climatic effects of 30 years of landscape change over the Greater Phoenix, Arizona, region: 1. Surface energy budget changes. Journal of Geophysical Research, 2009, 114, .	3.3	31
25	Reframing climate change assessments around risk: recommendations for the US National Climate Assessment. Environmental Research Letters, 2017, 12, 080201.	5.2	30
26	Climatic effects of 30 years of landscape change over the Greater Phoenix, Arizona, region: 2. Dynamical and thermodynamical response. Journal of Geophysical Research, 2009, 114, .	3.3	29
27	The Link between Summertime Cloud Radiative Forcing and Extratropical Cyclones in the North Pacific. Journal of Climate, 1996, 9, 2093-2109.	3.2	27
28	Coupling between Large-Scale Atmospheric Processes and Mesoscale Landâ€“Atmosphere Interactions in the U.S. Southern Great Plains during Summer. Part II: Mean Impacts of the Mesoscale. Journal of Hydrometeorology, 2004, 5, 1247-1258.	1.9	27
29	The Effects of Downscaling Method on the Variability of Simulated Watershed Response to Climate Change in Five U.S. Basins. Earth Interactions, 2016, 20, 1-27.	1.5	24
30	Toward a parameterization of mesoscale fluxes and moist convection induced by landscape heterogeneity. Journal of Geophysical Research, 1999, 104, 19515-19533.	3.3	23
31	Reframing Future Risks of Extreme Heat in the United States. Earth's Future, 2018, 6, 1323-1335.	6.3	23
32	Rising Sea Levels: Helping Decision-Makers Confront the Inevitable. Coastal Management, 2019, 47, 127-150.	2.0	23
33	Efficiency of storm tracks an important climate parameter? The role of cloud radiative forcing in poleward heat transport. Journal of Geophysical Research, 2003, 108, ACL 5-1.	3.3	22
34	Heat-Related Health Impacts under Scenarios of Climate and Population Change. International Journal of Environmental Research and Public Health, 2018, 15, 2438.	2.6	22
35	Sensitivity of modelâ€simulated summertime precipitation over the Mississippi River Basin to the spatial distribution of initial soil moisture. Journal of Geophysical Research, 2003, 108, .	3.3	20
36	Evaluating the effects of historical land cover change on summertime weather and climate in New Jersey: Land cover and surface energy budget changes. Journal of Geophysical Research, 2008, 113, .	3.3	20

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37	Hydrologic landscape classification evaluates streamflow vulnerability to climate change in Oregon, USA. Hydrology and Earth System Sciences, 2014, 18, 3367-3392.	4.9	19
38	Informing Future Risks of Recordâ€Level Rainfall in the United States. Geophysical Research Letters, 2019, 46, 3963-3972.	4.0	19
39	Sensitivity of summer climate to anthropogenic land-cover change over the Greater Phoenix, AZ, region. Journal of Arid Environments, 2008, 72, 1358-1373.	2.4	17
40	Relationship between clear-sky atmospheric greenhouse effect and deep convection during the Central Equatorial Pacific Experiment: Model calculations and satellite observations. Journal of Geophysical Research, 1994, 99, 25891.	3.3	15
41	Challenges in applying the paradigm of welfare economics to climate change. Journal of Benefit-Cost Analysis, 2014, 5, 347-376.	1.2	14
42	The Interactions among Cyclone Dynamics, Vertical Thermodynamic Structure, and Cloud Radiative Forcing in the North Atlantic Summertime Storm Track. Journal of Climate, 1999, 12, 2625-2642.	3.2	10
43	Using Multiobjective Optimization to Inform Green Infrastructure Decisions as Part of Robust Integrated Water Resources Management Plans. Journal of Water Resources Planning and Management - ASCE, 2021, 147, 1-12.	2.6	8
44	A Framework for Climate Change-Related Research to Inform Environmental Protection. Environmental Management, 2019, 64, 245-257.	2.7	7
45	Comments on â€œThe Effects of Mesoscale Surface Heterogeneity on the Fair-Weather Convective Atmospheric Boundary Layerâ€. Journals of the Atmospheric Sciences, 2009, 66, 3226-3228.	1.7	6
46	Determination of surface heating by convective cloud systems in the central equatorial Pacific from surface and satellite measurements. Journal of Geophysical Research, 2000, 105, 14807-14821.	3.3	4
47	Dynamical controls on subâ€“global climate model grid-scale cloud variability for Atmospheric Radiation Measurement Program (ARM) case 4. Journal of Geophysical Research, 2005, 110, .	3.3	4
48	Treading Water: Tools to Help US Coastal Communities Plan for Sea Level Rise Impacts. Frontiers in Marine Science, 2019, 6, .	2.5	4
49	Introduction to a special issue entitled Perspectives on Implementing Benefit-Cost Analysis in Climate Assessment. Journal of Benefit-Cost Analysis, 2014, 5, 333-346.	1.2	4
50	Assessing confidence in management adaptation approaches for climate-sensitive ecosystems. Environmental Research Letters, 2012, 7, 014016.	5.2	3
51	ESTIMATES OF CHANGES IN COUNTY-LEVEL HOUSING PRICES IN THE UNITED STATES UNDER SCENARIOS OF FUTURE CLIMATE CHANGE. Climate Change Economics, 2014, 05, 1450009.	5.0	2
52	Using hydrologic landscape classification and climatic time series to assess hydrologic vulnerability of the western U.S. to climate. Hydrology and Earth System Sciences, 2021, 25, 3179-3206.	4.9	2
53	Stochastic Radiative Transfer on Modeled Cloud Fields. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 184-188.	3.1	1