Radley Horton

List of Publications by Year
in descending order

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88 papers	7,378 citations	61857 43 h-index	56606 83 g-index
90 all docs	90 docs citations	90 times ranked	8074 citing authors

#	Article	IF	Citations
1	Impact of declining Arctic sea ice on winter snowfall. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4074-4079.	3.3	718
2	Probabilistic 21st and 22nd century seaâ€level projections at a global network of tideâ€gauge sites. Earth's Future, 2014, 2, 383-406.	2.4	672
3	A typology of compound weather and climate events. Nature Reviews Earth & Environment, 2020, 1, 333-347.	12.2	536
4	The emergence of heat and humidity too severe for human tolerance. Science Advances, 2020, 6, eaaw1838.	4.7	355
5	A Review of Recent Advances in Research on Extreme Heat Events. Current Climate Change Reports, 2016, 2, 242-259.	2.8	284
6	Understanding and managing connected extreme events. Nature Climate Change, 2020, 10, 611-621.	8.1	273
7	Evolving Understanding of Antarctic Iceâ€Sheet Physics and Ambiguity in Probabilistic Seaâ€Level Projections. Earth's Future, 2017, 5, 1217-1233.	2.4	269
8	Temperature and humidity based projections of a rapid rise in global heat stress exposure during the 21st century. Environmental Research Letters, 2018, 13, 014001.	2.2	244
9	Statistical downscaling and bias correction of climate model outputs for climate change impact assessment in the U.S. northeast. Global and Planetary Change, 2013, 100, 320-332.	1.6	194
10	Developing coastal adaptation to climate change in the New York City infrastructure-shed: process, approach, tools, and strategies. Climatic Change, 2011, 106, 93-127.	1.7	180
11	Amplified Rossby waves enhance risk of concurrent heatwaves in major breadbasket regions. Nature Climate Change, 2020, 10, 48-53.	8.1	164
12	Projections of seasonal patterns in temperature- related deaths for Manhattan, NewÂYork. Nature Climate Change, 2013, 3, 717-721.	8.1	143
13	Reducing spread in climate model projections of a September ice-free Arctic. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12571-12576.	3.3	138
14	Sea level rise projections for current generation CGCMs based on the semiâ€empirical method. Geophysical Research Letters, 2008, 35, .	1.5	121
15	Multi-factor impact analysis of agricultural production in Bangladesh with climate change. Global Environmental Change, 2013, 23, 338-350.	3.6	114
16	Threats to North American forests from southern pine beetle with warming winters. Nature Climate Change, 2017, 7, 713-717.	8.1	109
17	Evaluation of dynamic coastal response to sea-level rise modifies inundation likelihood. Nature Climate Change, 2016, 6, 696-700.	8.1	105
18	The Practitioner's Dilemma: How to Assess the Credibility of Downscaled Climate Projections. Eos, 2013, 94, 424-425.	0.1	103

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19	Stronger temperatureâ€“moisture couplings exacerbate the impact of climate warming on global crop yields. Nature Food, 2021, 2, 683-691.	6.2	100
20	Total and Extreme Precipitation Changes over the Northeastern United States. Journal of Hydrometeorology, 2017, 18, 1783-1798.	0.7	99
21	Joint projections of US East Coast sea level and storm surge. Nature Climate Change, 2015, 5, 1114-1120.	8.1	97
22	Climate change impact uncertainties for maize in Panama: Farm information, climate projections, and yield sensitivities. Agricultural and Forest Meteorology, 2013, 170, 132-145.	1.9	91
23	New York City Panel on Climate Change 2015 Report Chapter 2: Sea Level Rise and Coastal Storms. Annals of the New York Academy of Sciences, 2015, 1336, 36-44.	1.8	91
24	Evolution of 21st Century Sea Level Rise Projections. Earth's Future, 2018, 6, 1603-1615.	2.4	90
25	Future Hot and Dry Years Worsen Nile Basin Water Scarcity Despite Projected Precipitation Increases. Earth's Future, 2019, 7, 967-977.	2.4	79
26	Managing climate change risks in New York Cityâ€™s water system: assessment and adaptation planning. Mitigation and Adaptation Strategies for Global Change, 2007, 12, 1391-1409.	1.0	75
27	Impact of climate change on heat-related mortality in Jiangsu Province, China. Environmental Pollution, 2017, 224, 317-325.	3.7	73
28	Towards More Comprehensive Projections of Urban Heat-Related Mortality: Estimates for New York City under Multiple Population, Adaptation, and Climate Scenarios. Environmental Health Perspectives, 2017, 125, 47-55.	2.8	71
29	Aging Will Amplify the Heat-related Mortality Risk under a Changing Climate: Projection for the Elderly in Beijing, China. Scientific Reports, 2016, 6, 28161.	1.6	67
30	Climate Change and the Impact of Extreme Temperatures on Aviation. Weather, Climate, and Society, 2015, 7, 94-102.	0.5	65
31	Projections of temperature-attributable premature deaths in 209 U.S. cities using a cluster-based Poisson approach. Environmental Health, 2015, 14, 85.	1.7	63
32	Climate Hazard Assessment for Stakeholder Adaptation Planning in New York City. Journal of Applied Meteorology and Climatology, 2011, 50, 2247-2266.	0.6	59
33	Projected Heat-Related Mortality in the U.S. Urban Northeast. International Journal of Environmental Research and Public Health, 2013, 10, 6734-6747.	1.2	58
34	Climate change and fetal health: The impacts of exposure to extreme temperatures in New York City. Environmental Research, 2016, 144, 158-164.	3.7	57
35	The impacts of rising temperatures on aircraft takeoff performance. Climatic Change, 2017, 144, 381-388.	1.7	56
36	Spatiotemporal Patterns and Synoptics of Extreme Wetâ€Bulb Temperature in the Contiguous United States. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,108.	1.2	54

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37	Projected increase in the spatial extent of contiguous US summer heat waves and associated attributes. Environmental Research Letters, 2019, 14, 114029.	2.2	54
38	Assessing human habitability and migration. Science, 2021, 372, 1279-1283.	6.0	52
39	New York City Panel on Climate Change 2015 ReportChapter 1: Climate Observations and Projections. Annals of the New York Academy of Sciences, 2015, 1336, 18-35.	1.8	48
40	New York City Panel on Climate Change 2015 Report Chapter 4: Dynamic Coastal Flood Modeling. Annals of the New York Academy of Sciences, 2015, 1336, 56-66.	1.8	48
41	Heat-related mortality projections for cardiovascular and respiratory disease under the changing climate in Beijing, China. Scientific Reports, 2015, 5, 11441.	1.6	47
42	Blue Water Tradeâ€Offs With Vegetation in a CO₂â€Enriched Climate. Geophysical Research Letters, 2018, 45, 3115-3125.	1.5	46
43	CLIMATE RISK INFORMATION. Annals of the New York Academy of Sciences, 2010, 1196, 147-228.	1.8	45
44	Net benefits to US soy and maize yields from intensifying hourly rainfall. Nature Climate Change, 2020, 10, 819-822.	8.1	45
45	Uncertainty in Twenty-First-Century CMIP5 Sea Level Projections. Journal of Climate, 2015, 28, 838-852.	1.2	44
46	Long-term projections of temperature-related mortality risks for ischemic stroke, hemorrhagic stroke, and acute ischemic heart disease under changing climate in Beijing, China. Environment International, 2018, 112, 1-9.	4.8	44
47	Recent Increases in Exposure to Extreme Humidâ€Heat Events Disproportionately Affect Populated Regions. Geophysical Research Letters, 2021, 48, e2021GL094183.	1.5	41
48	Revisiting the potential of melt pond fraction as a predictor for the seasonal Arctic sea ice extent minimum. Environmental Research Letters, 2015, 10, 054017.	2.2	39
49	Heat-Related Mortality in a Warming Climate: Projections for 12 U.S. Cities. International Journal of Environmental Research and Public Health, 2014, 11, 11371-11383.	1.2	35
50	Projected changes in extreme temperature events based on the NARCCAP model suite. Geophysical Research Letters, 2015, 42, 7722-7731.	1.5	34
51	Evaluation of snow/ice albedo parameterizations and their impacts on sea ice simulations. International Journal of Climatology, 2007, 27, 81-91.	1.5	31
52	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 3493-3515.	1.3	31
53	Assessing ecosystem service provision under climate change to support conservation and development planning in Myanmar. PLoS ONE, 2017, 12, e0184951.	1.1	31
54	Variability of North Pacific Sea Ice and East Asiaâ€“North Pacific Winter Climate. Journal of Climate, 2007, 20, 1991-2001.	1.2	30

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55	Impacts of Projected Climate Change over the Lake Champlain Basin in Vermont. Journal of Applied Meteorology and Climatology, 2014, 53, 1861-1875.	0.6	30
56	Chapter 3: Climate observations and projections. Annals of the New York Academy of Sciences, 2010, 1196, 41-62.	1.8	28
57	Towards reliable Arctic sea ice prediction using multivariate data assimilation. Science Bulletin, 2019, 64, 63-72.	4.3	27
58	Concentrated and Intensifying Humid Heat Extremes in the IPCC AR6 Regions. Geophysical Research Letters, 2022, 49, .	1.5	27
59	Reply to Li and Wu: Arctic sea ice and winter snowfall. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1899-E1900.	3.3	26
60	Nonlinear increases in extreme temperatures paradoxically dampen increases in extreme humid-heat. Environmental Research Letters, 2019, 14, 084003.	2.2	25
61	Urban climate. , 2011, , 43-82.		24
62	Rising Sea Levels: Helping Decision-Makers Confront the Inevitable. Coastal Management, 2019, 47, 127-150.	1.0	23
63	Enhancing New York City's resilience to sea level rise and increased coastal flooding. Urban Climate, 2020, 33, 100654.	2.4	23
64	Drivers of exceptional coastal warming in the northeastern United States. Nature Climate Change, 2021, 11, 854-860.	8.1	23
65	Enhancing Climate Resilience at NASA Centers: A Collaboration between Science and Stewardship. Bulletin of the American Meteorological Society, 2014, 95, 1351-1363.	1.7	22
66	Influence of internal variability on population exposure to hydroclimatic changes. Environmental Research Letters, 2017, 12, 044007.	2.2	22
67	New York City Panel on Climate Change 2019 Report Chapter 3: Sea Level Rise. Annals of the New York Academy of Sciences, 2019, 1439, 71-94.	1.8	22
68	Modeling coastal flood risk and adaptation response under future climate conditions. Climate Risk Management, 2020, 29, 100233.	1.6	22
69	Causes of the northern highâ€latitude land surface winter climate change. Geophysical Research Letters, 2007, 34, .	1.5	21
70	New York City Panel on Climate Change 2019 Report Chapter 2: New Methods for Assessing Extreme Temperatures, Heavy Downpours, and Drought. Annals of the New York Academy of Sciences, 2019, 1439, 30-70.	1.8	21
71	Assessment of Arctic and Antarctic sea ice predictability in CMIP5Âdecadal hindcasts. Cryosphere, 2016, 10, 2429-2452.	1.5	20
72	Highâ€resolution projections of extreme heat in New York City. International Journal of Climatology, 2019, 39, 4721-4735.	1.5	17

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73	Life-cycle assessment of climate change impact on time-dependent carbon-footprint of asphalt pavement. Transportation Research, Part D: Transport and Environment, 2021, 91, 102697.	3.2	17
74	On the Controlling Factors for Globally Extreme Humid Heat. Geophysical Research Letters, 2021, 48, e2021GL096082.	1.5	17
75	Development and Evaluation of High-Resolution Climate Simulations over the Mountainous Northeastern United States. Journal of Hydrometeorology, 2016, 17, 881-896.	0.7	15
76	Urban Climate Science. , 0, , 27-60.		14
77	Beyond Hurricane Sandy: What Might the Future Hold for Tropical Cyclones in the North Atlantic?. Journal of Extreme Events, 2014, 01, 1450007.	1.2	13
78	Considerations in managing the fill rate of the Grand Ethiopian Renaissance Dam Reservoir using a system dynamics approach. Journal of Defense Modeling and Simulation, 2017, 14, 33-43.	1.2	10
79	Chapter 7: Indicators and monitoring. Annals of the New York Academy of Sciences, 2010, 1196, 127-142.	1.8	9
80	The Science of Adaptation to Extreme Heat. , 2018, , 89-103.		9
81	Habitat use as indicator of adaptive capacity to climate change. Diversity and Distributions, 2021, 27, 655-667.	1.9	9
82	Synthetic Scenarios from CMIP5 Model Simulations for Climate Change Impact Assessments in Managed Ecosystems and Water Resources: Case Study in South Asian Countries. Transactions of the ASABE, 2016, 59, 1715-1731.	1.1	8
83	Daily Autocorrelation and Mean Temperature/Moisture Rise as Determining Factors for Future Heat-Wave Patterns in the United States. Journal of Applied Meteorology and Climatology, 2020, 59, 1735-1754.	0.6	4
84	Climate change and the impact of extreme temperatures on aviation. , 2015, , .		3
85	The Influence of Intraseasonal Oscillations on Humid Heat in the Persian Gulf and South Asia. Journal of Climate, 2022, 35, 4309-4329.	1.2	3
86	Coping with Higher Sea Levels and Increased Coastal Flooding in New York City. Climate Change Management, 2017, , 209-223.	0.6	2
87	Reply to â€œComment on â€˜Climate Change and the Impact of Extreme Temperatures on Aviationâ€™â€•. Weather, Climate, and Society, 2016, 8, 207-208.	0.5	1
88	Application of NASA Climate Models and Missions to Agriculture DSS: The Solutions Network Approach. , 2008, , .		0