

Kenneth E Kunkel

List of Publications by Year in descending order

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124
papers

9,865
citations

50276

46
h-index

38395

95
g-index

133
all docs

133
docs citations

133
times ranked

9633
citing authors

#	ARTICLE	IF	CITATIONS
1	Observed Variability and Trends in Extreme Climate Events: A Brief Review[*]. Bulletin of the American Meteorological Society, 2000, 81, 417-425.	3.3	1,146
2	An Introduction to Trends in Extreme Weather and Climate Events: Observations, Socioeconomic Impacts, Terrestrial Ecological Impacts, and Model Projections*. Bulletin of the American Meteorological Society, 2000, 81, 413-416.	3.3	478
3	Long-Term Trends in Extreme Precipitation Events over the Conterminous United States and Canada. Journal of Climate, 1999, 12, 2515-2527.	3.2	435
4	Monitoring and Understanding Trends in Extreme Storms: State of Knowledge. Bulletin of the American Meteorological Society, 2013, 94, 499-514.	3.3	426
5	Temporal Fluctuations in Weather and Climate Extremes That Cause Economic and Human Health Impacts: A Review. Bulletin of the American Meteorological Society, 1999, 80, 1077-1098.	3.3	377
6	Monitoring and Understanding Changes in Heat Waves, Cold Waves, Floods, and Droughts in the United States: State of Knowledge. Bulletin of the American Meteorological Society, 2013, 94, 821-834.	3.3	365
7	Impacts and Responses to the 1995 Heat Wave: A Call to Action. Bulletin of the American Meteorological Society, 1996, 77, 1497-1506.	3.3	282
8	Probable maximum precipitation and climate change. Geophysical Research Letters, 2013, 40, 1402-1408.	4.0	249
9	North American Trends in Extreme Precipitation. Natural Hazards, 2003, 29, 291-305.	3.4	240
10	Meteorological Causes of the Secular Variations in Observed Extreme Precipitation Events for the Conterminous United States. Journal of Hydrometeorology, 2012, 13, 1131-1141.	1.9	223
11	Temporal variations of extreme precipitation events in the United States: 1895-2000. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	196
12	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
13	Changes in extreme events and the potential impacts on human health. Journal of the Air and Waste Management Association, 2018, 68, 265-287.	1.9	165
14	Regional climate model simulation of summer precipitation diurnal cycle over the United States. Geophysical Research Letters, 2004, 31, .	4.0	159
15	Regional Climate Model Simulation of U.S. Precipitation during 1982â€“2002. Part I: Annual Cycle. Journal of Climate, 2004, 17, 3510-3529.	3.2	156
16	The Nature and Impacts of the July 1999 Heat Wave in the Midwestern United States: Learning from the Lessons of 1995. Bulletin of the American Meteorological Society, 2001, 82, 1353-1367.	3.3	155
17	Temporal variations in frost-free season in the United States: 1895â€“2000. Geophysical Research Letters, 2004, 31, .	4.0	148
18	The July 1995 Heat Wave in the Midwest: A Climatic Perspective and Critical Weather Factors. Bulletin of the American Meteorological Society, 1996, 77, 1507-1518.	3.3	147

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19	The response of Great Lakes water levels to future climate scenarios with an emphasis on Lake Michigan-Huron. <i>Journal of Great Lakes Research</i> , 2010, 36, 51-58.	1.9	136
20	Detection and attribution of climate extremes in the observed record. <i>Weather and Climate Extremes</i> , 2016, 11, 17-27.	4.1	132
21	Observational and model-based trends and projections of extreme precipitation over the contiguous United States. <i>Earth's Future</i> , 2014, 2, 99-113.	6.3	131
22	Regional Climate Weather Research and Forecasting Model. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1363-1387.	3.3	129
23	Can CGCMs Simulate the Twentieth-Century Warming Hole in the Central United States?. <i>Journal of Climate</i> , 2006, 19, 4137-4153.	3.2	127
24	Regional climate model downscaling of the U.S. summer climate and future change. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	124
25	Climatic Aspects of the 1993 Upper Mississippi River Basin Flood. <i>Bulletin of the American Meteorological Society</i> , 1994, 75, 811-822.	3.3	123
26	Development of a Regional Climate Model for U.S. Midwest Applications. Part I: Sensitivity to Buffer Zone Treatment. <i>Journal of Climate</i> , 2001, 14, 4363-4378.	3.2	117
27	Recent increases in U.S. heavy precipitation associated with tropical cyclones. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	115
28	Trends and Extremes in Northern Hemisphere Snow Characteristics. <i>Current Climate Change Reports</i> , 2016, 2, 65-73.	8.6	110
29	Regional climate models downscaling analysis of general circulation models present climate biases propagation into future change projections. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	108
30	Monitoring and Understanding Changes in Extremes: Extratropical Storms, Winds, and Waves. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 377-386.	3.3	94
31	Effects of ocean warming on growth and distribution of dinoflagellates associated with ciguatera fish poisoning in the Caribbean. <i>Ecological Modelling</i> , 2015, 316, 194-210.	2.5	91
32	The Relative Importance of Warm Rain and Melting Processes in Freezing Precipitation Events. <i>Journal of Applied Meteorology and Climatology</i> , 2000, 39, 1185-1195.	1.7	86
33	Trends in Twentieth-Century U.S. Snowfall Using a Quality-Controlled Dataset. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 33-44.	1.3	75
34	Trend Identification in Twentieth-Century U.S. Snowfall: The Challenges. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 64-73.	1.3	65
35	The Seasonal Nature of Extreme Hydrological Events in the Northeastern United States. <i>Journal of Hydrometeorology</i> , 2015, 16, 2065-2085.	1.9	65
36	A Synoptic Weather Pattern and Sounding-Based Climatology of Freezing Precipitation in the United States East of the Rocky Mountains. <i>Journal of Applied Meteorology and Climatology</i> , 2001, 40, 1724-1747.	1.7	63

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37	Climate-Related Fluctuations in Midwestern Floods during 1921–1985. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1995, 121, 326-334.	2.6	62
38	Assessment of Potential Effects of Climate Change on Heavy Lake-Effect Snowstorms Near Lake Erie. <i>Journal of Great Lakes Research</i> , 2002, 28, 521-536.	1.9	61
39	The twentieth-century pluvial in the western United States. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	61
40	Simple Procedures for Extrapolation of Humidity Variables in the Mountainous Western United States. <i>Journal of Climate</i> , 1989, 2, 656-670.	3.2	60
41	MODELING THE IMPACT OF VARIABLE CLIMATIC FACTORS ON THE CROSSOVER OF CULEX RESTAUNS AND CULEX PIPIENS (DIPTERA: CULICIDAE), VECTORS OF WEST NILE VIRUS IN ILLINOIS. <i>American Journal of Tropical Medicine and Hygiene</i> , 2006, 74, 168-173.	1.4	60
42	Regional Climate Model Projections and Uncertainties of U.S. Summer Heat Waves. <i>Journal of Climate</i> , 2010, 23, 4447-4458.	3.2	59
43	Relationship of ENSO to snowfall and related cyclone activity in the contiguous United States. <i>Journal of Geophysical Research</i> , 1999, 104, 19425-19434.	3.3	58
44	Localized Changes in Heat Wave Properties Across the United States. <i>Earth's Future</i> , 2019, 7, 300-319.	6.3	58
45	Regional Climate Model Simulation of U.S.–Mexico Summer Precipitation Using the Optimal Ensemble of Two Cumulus Parameterizations. <i>Journal of Climate</i> , 2007, 20, 5201-5207.	3.2	53
46	Surface Boundary Conditions for Mesoscale Regional Climate Models. <i>Earth Interactions</i> , 2005, 9, 1-28.	1.5	50
47	A new look at lake-effect snowfall trends in the Laurentian Great Lakes using a temporally homogeneous data set. <i>Journal of Great Lakes Research</i> , 2009, 35, 23-29.	1.9	50
48	Changes in weather and climate extremes: State of knowledge relevant to air and water quality in the United States. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 184-197.	1.9	50
49	Seasonal and regional variations in extreme precipitation event frequency using CMIP5. <i>Geophysical Research Letters</i> , 2016, 43, 5385-5393.	4.0	49
50	Rapidly Expanding Uses of Climate Data and Information in Agriculture and Water Resources: Causes and Characteristics of New Applications. <i>Bulletin of the American Meteorological Society</i> , 1999, 80, 821-830.	3.3	47
51	Estimate of the aerodynamic roughness parameters over an incomplete canopy cover of cotton. <i>Agricultural and Forest Meteorology</i> , 1989, 46, 91-105.	4.8	45
52	The Boardman Regional Flux Experiment. <i>Bulletin of the American Meteorological Society</i> , 1992, 73, 1785-1795.	3.3	45
53	Quality Control of Pre-1948 Cooperative Observer Network Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 1691-1705.	1.3	44
54	Precipitation Extremes: Trends and Relationships with Average Precipitation and Precipitable Water in the Contiguous United States. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 125-142.	1.5	44

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55	A Monte Carlo Assessment of Uncertainties in Heavy Precipitation Frequency Variations. <i>Journal of Hydrometeorology</i> , 2007, 8, 1152-1160.	1.9	42
56	Trends in Twentieth-Century U.S. Extreme Snowfall Seasons. <i>Journal of Climate</i> , 2009, 22, 6204-6216.	3.2	41
57	Instantaneous and daily values of the surface energy balance over agricultural fields using remote sensing and a reference field in an arid environment. <i>Remote Sensing of Environment</i> , 1990, 32, 125-141.	11.0	40
58	Observations and Regional Climate Model Simulations of Heavy Precipitation Events and Seasonal Anomalies: A Comparison. <i>Journal of Hydrometeorology</i> , 2002, 3, 322-334.	1.9	36
59	Future Climate: Projected Average. , 2013, , 101-125.		34
60	An Expanded Digital Daily Database for Climatic Resources Applications in the Midwestern United States. <i>Bulletin of the American Meteorological Society</i> , 1998, 79, 1357-1366.	3.3	33
61	Synthesis of public water supply use in the United States: Spatio-temporal patterns and socio-economic controls. <i>Earth's Future</i> , 2017, 5, 771-788.	6.3	33
62	Great Lakes Hydrology Under Transposed Climates. <i>Climatic Change</i> , 1998, 38, 405-433.	3.6	31
63	Do CGCMs Simulate the North American Monsoon Precipitation Seasonal Interannual Variability?. <i>Journal of Climate</i> , 2008, 21, 4424-4448.	3.2	31
64	Observed Climatological Relationships of Extreme Daily Precipitation Events With Precipitable Water and Vertical Velocity in the Contiguous United States. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086721.	4.0	31
65	Performance of Quality Assurance Procedures on Daily Precipitation. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 821-834.	1.3	30
66	Changes in Instruments and Sites Affecting Historical Weather Records: A Case Study. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 825-828.	1.3	29
67	Operational Soil Moisture Estimation for the Midwestern United States. <i>Journal of Applied Meteorology and Climatology</i> , 1990, 29, 1158-1166.	1.7	28
68	An Assessment of Rainfall from Hurricanes Harvey and Florence Relative to Other Extremely Wet Storms in the United States. <i>Geophysical Research Letters</i> , 2019, 46, 13500-13506.	4.0	28
69	Climate Factors that Caused the Unique Tall Grass Prairie in the Central United States. <i>Physical Geography</i> , 2002, 23, 259-280.	1.4	26
70	Sensitivity of future ozone concentrations in the northeast USA to regional climate change. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2008, 13, 597-606.	2.1	25
71	Long-term Observations for Monitoring Extremes in the Americas. <i>Climatic Change</i> , 1999, 42, 285-308.	3.6	23
72	Modeling the impact of variable climatic factors on the crossover of <i>Culex restuans</i> and <i>Culex pipiens</i> (Diptera: culicidae), vectors of West Nile virus in Illinois. <i>American Journal of Tropical Medicine and Hygiene</i> , 2006, 74, 168-73.	1.4	23

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73	Causes for Record High Flood Losses in the Central United States. <i>Water International</i> , 2001, 26, 223-230.	1.0	22
74	A framework for examining climate-driven changes to the seasonality and geographical range of coastal pathogens and harmful algae. <i>Climate Risk Management</i> , 2015, 8, 16-27.	3.2	22
75	Temporal and Spatial Characteristics of Heavy-Precipitation Events in the Midwest. <i>Monthly Weather Review</i> , 1993, 121, 858-866.	1.4	20
76	Further Investigation of a Physically Based, Nondimensional Parameter for Discriminating between Locations of Freezing Rain and Ice Pellets. <i>Weather and Forecasting</i> , 2001, 16, 185-191.	1.4	20
77	Intermittent turbulence in measurements of the temperature structure parameter under very stable conditions. <i>Boundary-Layer Meteorology</i> , 1982, 22, 49-60.	2.3	19
78	A surface energy budget view of the 1988 midwestern United States drought. <i>Boundary-Layer Meteorology</i> , 1989, 48, 217-225.	2.3	19
79	GCM Simulations of the Climate in the Central United States. <i>Journal of Climate</i> , 2005, 18, 1016-1031.	3.2	19
80	Seasonal Simulation of Tropospheric Ozone over the Midwestern and Northeastern United States: An Application of a Coupled Regional Climate and Air Quality Modeling System. <i>Journal of Applied Meteorology and Climatology</i> , 2007, 46, 945-960.	1.5	19
81	Automated detection of weather fronts using a deep learning neural network. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2019, 5, 147-160.	0.9	19
82	Physical Modeling of U.S. Cotton Yields and Climate Stresses during 1979 to 2005. <i>Agronomy Journal</i> , 2012, 104, 675-683.	1.8	18
83	Precipitation and Fatal Motor Vehicle Crashes: Continental Analysis with High-Resolution Radar Data. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1453-1461.	3.3	18
84	Present Weather and Climate: Evolving Conditions. , 2013, , 74-100.		18
85	Record Flood-Producing Rainstorms of 17â€“18 July 1996 in the Chicago Metropolitan Area. Part I: Synoptic and Mesoscale Features. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 257-265.	1.7	17
86	A Distributed Cotton Growth Model Developed from GOSSYM and Its Parameter Determination. <i>Agronomy Journal</i> , 2012, 104, 661-674.	1.8	16
87	Heterogeneous response of global precipitation concentration to global warming. <i>International Journal of Climatology</i> , 2021, 41, E2347.	3.5	16
88	Trends and Variability in Severe Snowstorms East of the Rocky Mountains*. <i>Journal of Hydrometeorology</i> , 2014, 15, 1762-1777.	1.9	15
89	Surface Energy Budget and Fuel Moisture. , 2001, , 303-350.		15
90	A Real-Time Climate Information System for the Midwestern United States. <i>Bulletin of the American Meteorological Society</i> , 1990, 71, 1601-1609.	3.3	14

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109	Late Spring Freezes in the Central USA: Climatological Aspects. Journal of Production Agriculture, 1995, 8, 190-198.	0.4	4
110	Laurentian Great Lakes Hydrology and Lake Levels under the Transposed 1993 Mississippi River Flood Climate. Journal of Great Lakes Research, 1997, 23, 317-327.	1.9	4
111	Innovations in information management and access for assessments. Climatic Change, 2016, 135, 69-83.	3.6	4
112	Evaluation of CMIP5 ability to reproduce twentieth century regional trends in surface air temperature and precipitation over CONUS. Climate Dynamics, 2019, 53, 5459-5480.	3.8	4
113	Investigating the association between late spring Gulf of Mexico sea surface temperatures and U.S. Gulf Coast precipitation extremes with focus on Hurricane Harvey. Environmetrics, 2020, 31, e2595.	1.4	4
114	A Regional Response to Climate Information Needs during the 1993 Flood. Bulletin of the American Meteorological Society, 1995, 76, 2415-2421.	3.3	3
115	Uncertainties in Observed Changes in Climate Extremes. Water Science and Technology Library, 2013, , 287-307.	0.3	3
116	Monthly Extreme Temperature Trends in CMIP5 Hindcast/Prediction Simulations, 1981-2010 and 2006-35. Journal of Applied Meteorology and Climatology, 2017, 56, 1141-1154.	1.5	3
117	Extreme Precipitation Trends and Meteorological Causes Over the Laurentian Great Lakes. Frontiers in Water, 2022, 4, .	2.3	3
118	Evaluation of Total Precipitable Water from CRCM4 using the NVAP-MEaSURES Dataset and ERA-Interim Reanalysis Data. Atmosphere - Ocean, 2016, 54, 541-548.	1.6	2
119	Development of a Rapid Response Capability to Evaluate Causes of Extreme Temperature and Drought Events in the United States. Bulletin of the American Meteorological Society, 2022, 103, S14-S20.	3.3	2
120	Mapping Heat Wave Hazard in Urban Areas: A Novel Multi-Criteria Decision Making Approach. Atmosphere, 2022, 13, 1037.	2.3	2
121	Two-dimensional field of thermal turbulence at the edge of an escarpment. Boundary-Layer Meteorology, 1982, 23, 473-487.	2.3	1
122	Evaluating the Reliability of the U.S. Cooperative Observer Program Precipitation Observations for Extreme Events Analysis Using the LTAR Network. Journal of Atmospheric and Oceanic Technology, 2019, 36, 317-332.	1.3	1
123	Estimating Summer Design Temperatures from Daily Maximum Temperatures in New Mexico. Journal of Climate and Applied Meteorology, 1986, 25, 517-523.	1.0	0
124	Reply to "Comments on "Monitoring and Understanding Trends in Extreme Storms: State of Knowledge". Bulletin of the American Meteorological Society, 2016, 2016, 1177-1179.	3.3	0