Richard W Katz

List of Publications by Year in Descending Order

97 papers	8,368 citations	43 h-index	91 g-index
106 ext. papers	9,205 ext. citations	4.8 avg, IF	6.37 L-index

#	Paper	IF	Citations
97	North American extreme precipitation events and related large-scale meteorological patterns: a review of statistical methods, dynamics, modeling, and trends. *Climate Dynamics*, **2019**, 53, 6835-6875	4.2	35
96	Climate change or climate regimes? Examining multi-annual variations in the frequency of precipitation extremes over the Argentine Pampas. *Climate Dynamics*, **2019**, 53, 245-260	4.2	1
95	Quantifying the Risk of Extreme Events under Climate Change. *Chance*, **2017**, 30, 30-36	1	8
94	Hydrological Extremes **2016**, 1-8		
93	North American extreme temperature events and related large scale meteorological patterns: a review of statistical methods, dynamics, modeling, and trends. *Climate Dynamics*, **2016**, 46, 1151-1184	4.2	142
92	extRemes2.0: An Extreme Value Analysis Package inR. *Journal of Statistical Software*, **2016**, 72,	7.3	222
91	Coupled stochastic weather generation using spatial and generalized linear models. *Stochastic Environmental Research and Risk Assessment*, **2015**, 29, 347-356	3.5	39
90	A Weibull Approach for Improving Climate Model Projections of Tropical Cyclone Wind-Speed Distributions. *Journal of Climate*, **2014**, 27, 6119-6133	4.4	25
89	Non-stationary extreme value analysis in a changing climate. *Climatic Change*, **2014**, 127, 353-369	4.5	269
88	Monitoring and Understanding Changes in Extremes: Extratropical Storms, Winds, and Waves. *Bulletin of the American Meteorological Society*, **2014**, 95, 377-386	6.1	71
87	US billion-dollar weather and climate disasters: data sources, trends, accuracy and biases. *Natural Hazards*, **2013**, 67, 387-410	3	362
86	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	6.1	300
85	Statistical Methods for Nonstationary Extremes. *Water Science and Technology Library*, **2013**, 15-37	0.3	87
84	Daily minimum and maximum temperature simulation over complex terrain. *Annals of Applied Statistics*, **2013**, 7,	2.1	22
83	Monitoring and Understanding Trends in Extreme Storms: State of Knowledge. *Bulletin of the American Meteorological Society*, **2013**, 94, 499-514	6.1	350
82	Design Life Level: Quantifying risk in a changing climate. *Water Resources Research*, **2013**, 49, 5964-5972	5.4	117
81	Daily spatiotemporal precipitation simulation using latent and transformed Gaussian processes. *Water Resources Research*, **2012**, 48,	5.4	97

80	A new face for climate dice. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 14720-1	11.5	7
79	Reducing overdispersion in stochastic weather generators using a generalized linear modeling approach. *Climate Research*, **2012**, 53, 13-24	1.6	29
78	New Software to Analyze How Extremes Change Over Time. *Eos*, **2011**, 92, 13-14	1.5	152
77	Extreme Cold Winter Temperatures in Europe under the Influence of North Atlantic Atmospheric Blocking. *Journal of Climate*, **2011**, 24, 5899-5913	4.4	159
76	Economic Value of Weather and Climate Forecasts **2011**,		4
75	Modeling hydrologic and water quality extremes in a changing climate: A statistical approach based on extreme value theory. *Water Resources Research*, **2010**, 46,	5.4	86
74	Statistical modeling of hot spells and heat waves. *Climate Research*, **2010**, 43, 191-205	1.6	50
73	Statistics of extremes in climate change. *Climatic Change*, **2010**, 100, 71-76	4.5	184
72	Discussion on Predicting losses of residential structures in the state of Florida by the public hurricane loss evaluation model by S. Hamid et al.. *Statistical Methodology*, **2010**, 7, 592-595		4
71	Value of perfect ENSO phase predictions for agriculture: evaluating the impact of land tenure and decision objectives. *Climatic Change*, **2009**, 97, 145-170	4.5	22
70	Mixture model of generalized chain-dependent processes and its application to simulation of interannual variability of daily rainfall. *Journal of Hydrology*, **2008**, 349, 191-199	6	23
69	Simulation of spatial dependence in daily rainfall using multisite generators. *Water Resources Research*, **2008**, 44,	5.4	14
68	Improving the simulation of extreme precipitation events by stochastic weather generators. *Water Resources Research*, **2008**, 44,	5.4	135
67	A semiparametric multivariate and multisite weather generator. *Water Resources Research*, **2007**, 43,	5.4	84
66	The problem of multiplicity in research on teleconnections. *International Journal of Climatology*, **2007**, 11, 505-513	3.5	43
65	Generalized linear modeling approach to stochastic weather generators. *Climate Research*, **2007**, 34, 129-144	1.6	92
64	Statistical Methods for Quantifying the Effect of the El Niño Southern Oscillation on Wind Power in the Northern Great Plains of the United States. *Wind Engineering*, **2007**, 31, 123-137	1.2	8
63	Bayesian Approach to Decision Making Using Ensemble Weather Forecasts. *Weather and Forecasting*, **2006**, 21, 220-231	2.1	21

62	STATISTICS OF EXTREMES: MODELING ECOLOGICAL DISTURBANCES. *Ecology*, **2005**, 86, 1124-1134	4.6	158
61	Stochastic Modeling of the Effects of Large-Scale Circulation on Daily Weather in the Southeastern U.S.. *Climatic Change*, **2003**, 60, 189-216	4.5	60
60	Stochastic Modeling of the Effects of Large-Scale Circulation on Daily Weather in the Southeastern U.S. **2003**, 189-216		3
59	Statistics of extremes in hydrology. *Advances in Water Resources*, **2002**, 25, 1287-1304	4.7	1022
58	Stochastic Modeling of Hurricane Damage. *Journal of Applied Meteorology and Climatology*, **2002**, 41, 754-762		77
57	Techniques for estimating uncertainty in climate change scenarios and impact studies. *Climate Research*, **2002**, 20, 167-185	1.6	150
56	Sir Gilbert Walker and a Connection between El Niño and Statistics. *Statistical Science*, **2002**, 17,	2.4	37
55	An Extended Version of the Richardson Model for Simulating Daily Weather Variables. *Journal of Applied Meteorology and Climatology*, **2000**, 39, 610-622		73
54	Extreme value theory for precipitation: sensitivity analysis for climate change. *Advances in Water Resources*, **1999**, 23, 133-139	4.7	102
53	The potential long-range predictability of precipitation over New Zealand. *International Journal of Climatology*, **1999**, 19, 405-421	3.5	21
52	Moments of power transformed time series **1999**, 10, 301-307		6
51	Mixture Model For Overdispersion of Precipitation. *Journal of Climate*, **1999**, 12, 2528-2537	4.4	60
50	Conditioning stochastic properties of daily precipitation on indices of atmospheric circulation. *Meteorological Applications*, **1998**, 5, 75-87	2.1	18
49	Overdispersion Phenomenon in Stochastic Modeling of Precipitation. *Journal of Climate*, **1998**, 11, 591-601	4.4	140
48	Forecast value: prescriptive decision studies **1997**, 109-146		26
47	Use of conditional stochastic models to generate climate change scenarios. *Climatic Change*, **1996**, 32, 237-255	4.5	93
46	Mixtures of stochastic processes: application to statistical downscaling. *Climate Research*, **1996**, 7, 185-193	2.6	43
45	Generalizations of Chain-Dependent Processes: Application to Hourly Precipitation. *Water Resources Research*, **1995**, 31, 1331-1341	5.4	67

44	Regional Analysis of Temperature Extremes: Spatial Analog for Climate Change?. *Journal of Climate* , **1995**, 8, 108-119	4.4	42
43	Statistical Explanation for Trends in Extreme Summer Temperatures at Phoenix, Arizona. *Journal of Climate*, **1995**, 8, 1704-1708	4.4	27
42	Modelling and forecasting seasonal precipitation in Florida: A vector time-domain approach. *International Journal of Climatology*, **1995**, 15, 53-64	3.5	3
41	Sensitivity analysis of extreme precipitation events. *International Journal of Climatology*, **1994**, 14, 985-999	3.5	18
40	Sensitivity of extreme events to climate change: The case of autocorrelated time series. *Environmetrics*, **1994**, 5, 451-462	1.3	15
39	Effects of an index of atmospheric circulation on stochastic properties of precipitation. *Water Resources Research*, **1993**, 29, 2335-2344	5.4	75
38	Dynamic Cost-Loss Ratio Decision-making Model with an Autocorrelated Climate Variable. *Journal of Climate*, **1993**, 6, 151-160	4.4	16
37	A Test for Inhomogeneous Variance in Time-averaged Temperature Data. *Journal of Climate*, **1993**, 6, 2448-2464	4.4	10
36	Extreme events in a changing climate: Variability is more important than averages. *Climatic Change*, **1992**, 21, 289-302	4.5	917
35	Comments on □uality/value relationships for imperfect weather forecasts□ by Katz and Murphy. *Journal of Forecasting*, **1992**, 11, 81-88	2.1	
34	Quality/value relationships for imperfect weather forecasts in a prototype multistage decision-making model. *Journal of Forecasting*, **1990**, 9, 75-86	2.1	13
33	Spectral Estimation from Time Series Models with Relevance to the Southern Oscillation. *Journal of Climate*, **1989**, 2, 86-90	4.4	18
32	Use of cross correlations in the search for teleconnections. *Journal of Climatology*, **1988**, 8, 241-253		52
31	Statistical Procedures for Making Inferences about Climate Variability. *Journal of Climate*, **1988**, 1, 1057-1064	4.4	15
30	Quality/Value Relationship for Imperfect Information in the Umbrella Problem. *American Statistician*, **1987**, 41, 187-189	5	3
29	Measures of Predictability with Applications to the Southern Oscillation. *Monthly Weather Review*, **1987**, 115, 1542-1549	2.4	11
28	Quality/Value Relationship for Imperfect Information in the Umbrella Problem. *American Statistician*, **1987**, 41, 187	5	6
27	Decision-analytic assessment of the economic value of weather forecasts: The fallowing/planting problem. *Journal of Forecasting*, **1987**, 6, 77-89	2.1	16

26	Anatomy of a Rainfall Index. *Monthly Weather Review*, **1986**, 114, 764-771	2.4	101
25	On the Economic Value of Seasonal-Precipitation Forecasts: The Fallowing/Planting Problem. *Bulletin of the American Meteorological Society*, **1986**, 67, 833-841	6.1	29
24	Exploratory Analysis of Precipitation Events with Implications for Stochastic Modeling. *Journal of Climate and Applied Meteorology*, **1985**, 24, 57-67		36
23	Repetitive Decision Making and the Value of Forecasts in the Cost-Loss Ratio Situation: A Dynamic Model. *Monthly Weather Review*, **1985**, 113, 801-813	2.4	23
22	Modeling and Forecasting the Southern Oscillation: A Time-Domain Approach. *Monthly Weather Review*, **1985**, 113, 1876-1888	2.4	35
21	Value of Weather Information: A Descriptive Study of the Fruit-Frost Problem. *Bulletin of the American Meteorological Society*, **1984**, 65, 126-137	6.1	21
20	Extreme High-Temperature Events: Changes in their probabilities with Changes in Mean Temperature. *Journal of Climate and Applied Meteorology*, **1984**, 23, 1601-1613		352
19	Time Series Models to Simulate and Forecast Wind Speed and Wind Power. *Journal of Climate and Applied Meteorology*, **1984**, 23, 1184-1195		305
18	Assessing the Adequacy of Natural Science Information: A Bayesian Approach. *Review of Economics and Statistics*, **1984**, 66, 568	3.7	13
17	The value of climate information: A decision-analytic approach. *Journal of Climatology*, **1983**, 3, 187-197		18
16	Statistical Procedures for Making Inferences about Precipitation Changes Simulated by an Atmospheric General Circulation Model. *Journals of the Atmospheric Sciences*, **1983**, 40, 2193-2201	2.1	24
15	Statistical Evaluation of Climate Experiments with General Circulation Models: A Parametric Time Series Modeling Approach. *Journals of the Atmospheric Sciences*, **1982**, 39, 1446-1455	2.1	59
14	Assessing the Value of Frost Forecasts to Orchardists: A Dynamic Decision-Making Approach. *Journal of Applied Meteorology*, **1982**, 21, 518-531		45
13	Statistical relationships between hailfall and damage to wheat. *Agricultural Meteorology*, **1981**, 24, 29-43		8
12	On Some Criteria for Estimating the Order of a Markov Chain. *Technometrics*, **1981**, 23, 243	1.4	138
11	On the Use of Autoregressive-Moving Average Processes to Model Meteorological Time Series. *Monthly Weather Review*, **1981**, 109, 479-484	2.4	38
10	Parsimony in modeling daily precipitation. *Water Resources Research*, **1979**, 15, 1628-1630	5.4	4
9	Sensitivity analysis of statistical crop weather models. *Agricultural Meteorology*, **1979**, 20, 291-300		8

8	Desert rainfall. *Nature*, **1978**, 271, 7-7	50.4	
7	Persistence of Subtropical African Droughts. *Monthly Weather Review*, **1978**, 106, 1017-1021	2.4	10
6	An application of chain-dependent processes to meteorology. *Journal of Applied Probability*, **1977**, 14, 598-603	0.8	17
5	Precipitation as a Chain-Dependent Process. *Journal of Applied Meteorology*, **1977**, 16, 671-676		209
4	An application of chain-dependent processes to meteorology. *Journal of Applied Probability*, **1977**, 14, 598-603	0.8	22
3	Assessing the impact of climatic change on food production. *Climatic Change*, **1977**, 1, 85-96	4.5	52
2	Computing Probabilities Associated with the Markov Chain Model for Precipitation. *Journal of Applied Meteorology*, **1974**, 13, 953-954		23
1	Economic Impact of Extreme Events. *Geophysical Monograph Series*,205-217	1.1	3