

# Richard W Katz

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2522961/richard-w-katz-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Statistics of extremes in hydrology. <i>Advances in Water Resources</i> , <b>2002</b> , 25, 1287-1304	4.7	1022
96	Extreme events in a changing climate: Variability is more important than averages. <i>Climatic Change</i> , <b>1992</b> , 21, 289-302	4.5	917
95	US billion-dollar weather and climate disasters: data sources, trends, accuracy and biases. <i>Natural Hazards</i> , <b>2013</b> , 67, 387-410	3	362
94	Extreme High-Temperature Events: Changes in their probabilities with Changes in Mean Temperature. <i>Journal of Climate and Applied Meteorology</i> , <b>1984</b> , 23, 1601-1613		352
93	Monitoring and Understanding Trends in Extreme Storms: State of Knowledge. <i>Bulletin of the American Meteorological Society</i> , <b>2013</b> , 94, 499-514	6.1	350
92	Time Series Models to Simulate and Forecast Wind Speed and Wind Power. <i>Journal of Climate and Applied Meteorology</i> , <b>1984</b> , 23, 1184-1195		305
91	Monitoring and Understanding Changes in Heat Waves, Cold Waves, Floods, and Droughts in the United States: State of Knowledge. <i>Bulletin of the American Meteorological Society</i> , <b>2013</b> , 94, 821-834	6.1	300
90	Non-stationary extreme value analysis in a changing climate. <i>Climatic Change</i> , <b>2014</b> , 127, 353-369	4.5	269
89	extRemes2.0: An Extreme Value Analysis Package inR. <i>Journal of Statistical Software</i> , <b>2016</b> , 72,	7.3	222
88	Precipitation as a Chain-Dependent Process. <i>Journal of Applied Meteorology</i> , <b>1977</b> , 16, 671-676		209
87	Statistics of extremes in climate change. <i>Climatic Change</i> , <b>2010</b> , 100, 71-76	4.5	184
86	Extreme Cold Winter Temperatures in Europe under the Influence of North Atlantic Atmospheric Blocking. <i>Journal of Climate</i> , <b>2011</b> , 24, 5899-5913	4.4	159
85	STATISTICS OF EXTREMES: MODELING ECOLOGICAL DISTURBANCES. <i>Ecology</i> , <b>2005</b> , 86, 1124-1134	4.6	158
84	New Software to Analyze How Extremes Change Over Time. <i>Eos</i> , <b>2011</b> , 92, 13-14	1.5	152
83	Techniques for estimating uncertainty in climate change scenarios and impact studies. <i>Climate Research</i> , <b>2002</b> , 20, 167-185	1.6	150
82	North American extreme temperature events and related large scale meteorological patterns: a review of statistical methods, dynamics, modeling, and trends. <i>Climate Dynamics</i> , <b>2016</b> , 46, 1151-1184	4.2	142
81	Overdispersion Phenomenon in Stochastic Modeling of Precipitation. <i>Journal of Climate</i> , <b>1998</b> , 11, 591-604		140

80	On Some Criteria for Estimating the Order of a Markov Chain. <i>Technometrics</i> , <b>1981</b> , 23, 243	1.4	138
79	Improving the simulation of extreme precipitation events by stochastic weather generators. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	135
78	Design Life Level: Quantifying risk in a changing climate. <i>Water Resources Research</i> , <b>2013</b> , 49, 5964-5972	5.4	117
77	Extreme value theory for precipitation: sensitivity analysis for climate change. <i>Advances in Water Resources</i> , <b>1999</b> , 23, 133-139	4.7	102
76	Anatomy of a Rainfall Index. <i>Monthly Weather Review</i> , <b>1986</b> , 114, 764-771	2.4	101
75	Daily spatiotemporal precipitation simulation using latent and transformed Gaussian processes. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	97
74	Use of conditional stochastic models to generate climate change scenarios. <i>Climatic Change</i> , <b>1996</b> , 32, 237-255	4.5	93
73	Generalized linear modeling approach to stochastic weather generators. <i>Climate Research</i> , <b>2007</b> , 34, 129-144	1.6	92
72	Statistical Methods for Nonstationary Extremes. <i>Water Science and Technology Library</i> , <b>2013</b> , 15-37	0.3	87
71	Modeling hydrologic and water quality extremes in a changing climate: A statistical approach based on extreme value theory. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	86
70	A semiparametric multivariate and multisite weather generator. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	84
69	Stochastic Modeling of Hurricane Damage. <i>Journal of Applied Meteorology and Climatology</i> , <b>2002</b> , 41, 754-762		77
68	Effects of an index of atmospheric circulation on stochastic properties of precipitation. <i>Water Resources Research</i> , <b>1993</b> , 29, 2335-2344	5.4	75
67	An Extended Version of the Richardson Model for Simulating Daily Weather Variables. <i>Journal of Applied Meteorology and Climatology</i> , <b>2000</b> , 39, 610-622		73
66	Monitoring and Understanding Changes in Extremes: Extratropical Storms, Winds, and Waves. <i>Bulletin of the American Meteorological Society</i> , <b>2014</b> , 95, 377-386	6.1	71
65	Generalizations of Chain-Dependent Processes: Application to Hourly Precipitation. <i>Water Resources Research</i> , <b>1995</b> , 31, 1331-1341	5.4	67
64	Stochastic Modeling of the Effects of Large-Scale Circulation on Daily Weather in the Southeastern U.S.. <i>Climatic Change</i> , <b>2003</b> , 60, 189-216	4.5	60
63	Mixture Model For Overdispersion of Precipitation. <i>Journal of Climate</i> , <b>1999</b> , 12, 2528-2537	4.4	60

62	Statistical Evaluation of Climate Experiments with General Circulation Models: A Parametric Time Series Modeling Approach. <i>Journals of the Atmospheric Sciences</i> , <b>1982</b> , 39, 1446-1455	2.1	59
61	Use of cross correlations in the search for teleconnections. <i>Journal of Climatology</i> , <b>1988</b> , 8, 241-253		52
60	Assessing the impact of climatic change on food production. <i>Climatic Change</i> , <b>1977</b> , 1, 85-96	4.5	52
59	Statistical modeling of hot spells and heat waves. <i>Climate Research</i> , <b>2010</b> , 43, 191-205	1.6	50
58	Assessing the Value of Frost Forecasts to Orchardists: A Dynamic Decision-Making Approach. <i>Journal of Applied Meteorology</i> , <b>1982</b> , 21, 518-531		45
57	The problem of multiplicity in research on teleconnections. <i>International Journal of Climatology</i> , <b>2007</b> , 11, 505-513	3.5	43
56	Mixtures of stochastic processes: application to statistical downscaling. <i>Climate Research</i> , <b>1996</b> , 7, 185-193	3.5	43
55	Regional Analysis of Temperature Extremes: Spatial Analog for Climate Change?. <i>Journal of Climate</i> , <b>1995</b> , 8, 108-119	4.4	42
54	Coupled stochastic weather generation using spatial and generalized linear models. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2015</b> , 29, 347-356	3.5	39
53	On the Use of Autoregressive-Moving Average Processes to Model Meteorological Time Series. <i>Monthly Weather Review</i> , <b>1981</b> , 109, 479-484	2.4	38
52	Sir Gilbert Walker and a Connection between El Niño and Statistics. <i>Statistical Science</i> , <b>2002</b> , 17,	2.4	37
51	Exploratory Analysis of Precipitation Events with Implications for Stochastic Modeling. <i>Journal of Climate and Applied Meteorology</i> , <b>1985</b> , 24, 57-67		36
50	North American extreme precipitation events and related large-scale meteorological patterns: a review of statistical methods, dynamics, modeling, and trends. <i>Climate Dynamics</i> , <b>2019</b> , 53, 6835-6875	4.2	35
49	Modeling and Forecasting the Southern Oscillation: A Time-Domain Approach. <i>Monthly Weather Review</i> , <b>1985</b> , 113, 1876-1888	2.4	35
48	On the Economic Value of Seasonal-Precipitation Forecasts: The Following/Planting Problem. <i>Bulletin of the American Meteorological Society</i> , <b>1986</b> , 67, 833-841	6.1	29
47	Reducing overdispersion in stochastic weather generators using a generalized linear modeling approach. <i>Climate Research</i> , <b>2012</b> , 53, 13-24	1.6	29
46	Statistical Explanation for Trends in Extreme Summer Temperatures at Phoenix, Arizona. <i>Journal of Climate</i> , <b>1995</b> , 8, 1704-1708	4.4	27
45	Forecast value: prescriptive decision studies <b>1997</b> , 109-146		26

44	A Weibull Approach for Improving Climate Model Projections of Tropical Cyclone Wind-Speed Distributions. <i>Journal of Climate</i> , <b>2014</b> , 27, 6119-6133	4.4	25
43	Statistical Procedures for Making Inferences about Precipitation Changes Simulated by an Atmospheric General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , <b>1983</b> , 40, 2193-2201	2.1	24
42	Mixture model of generalized chain-dependent processes and its application to simulation of interannual variability of daily rainfall. <i>Journal of Hydrology</i> , <b>2008</b> , 349, 191-199	6	23
41	Repetitive Decision Making and the Value of Forecasts in the Cost-Loss Ratio Situation: A Dynamic Model. <i>Monthly Weather Review</i> , <b>1985</b> , 113, 801-813	2.4	23
40	Computing Probabilities Associated with the Markov Chain Model for Precipitation. <i>Journal of Applied Meteorology</i> , <b>1974</b> , 13, 953-954		23
39	Daily minimum and maximum temperature simulation over complex terrain. <i>Annals of Applied Statistics</i> , <b>2013</b> , 7,	2.1	22
38	Value of perfect ENSO phase predictions for agriculture: evaluating the impact of land tenure and decision objectives. <i>Climatic Change</i> , <b>2009</b> , 97, 145-170	4.5	22
37	An application of chain-dependent processes to meteorology. <i>Journal of Applied Probability</i> , <b>1977</b> , 14, 598-603	0.8	22
36	Bayesian Approach to Decision Making Using Ensemble Weather Forecasts. <i>Weather and Forecasting</i> , <b>2006</b> , 21, 220-231	2.1	21
35	The potential long-range predictability of precipitation over New Zealand. <i>International Journal of Climatology</i> , <b>1999</b> , 19, 405-421	3.5	21
34	Value of Weather Information: A Descriptive Study of the Fruit-Frost Problem. <i>Bulletin of the American Meteorological Society</i> , <b>1984</b> , 65, 126-137	6.1	21
33	Conditioning stochastic properties of daily precipitation on indices of atmospheric circulation. <i>Meteorological Applications</i> , <b>1998</b> , 5, 75-87	2.1	18
32	Sensitivity analysis of extreme precipitation events. <i>International Journal of Climatology</i> , <b>1994</b> , 14, 985-999		18
31	Spectral Estimation from Time Series Models with Relevance to the Southern Oscillation. <i>Journal of Climate</i> , <b>1989</b> , 2, 86-90	4.4	18
30	The value of climate information: A decision-analytic approach. <i>Journal of Climatology</i> , <b>1983</b> , 3, 187-197		18
29	An application of chain-dependent processes to meteorology. <i>Journal of Applied Probability</i> , <b>1977</b> , 14, 598-603	0.8	17
28	Dynamic Cost-Loss Ratio Decision-making Model with an Autocorrelated Climate Variable. <i>Journal of Climate</i> , <b>1993</b> , 6, 151-160	4.4	16
27	Decision-analytic assessment of the economic value of weather forecasts: The following/planting problem. <i>Journal of Forecasting</i> , <b>1987</b> , 6, 77-89	2.1	16

26	Sensitivity of extreme events to climate change: The case of autocorrelated time series. <i>Environmetrics</i> , <b>1994</b> , 5, 451-462	1.3	15
25	Statistical Procedures for Making Inferences about Climate Variability. <i>Journal of Climate</i> , <b>1988</b> , 1, 1057-1064	1.6	15
24	Simulation of spatial dependence in daily rainfall using multisite generators. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	14
23	Quality/value relationships for imperfect weather forecasts in a prototype multistage decision-making model. <i>Journal of Forecasting</i> , <b>1990</b> , 9, 75-86	2.1	13
22	Assessing the Adequacy of Natural Science Information: A Bayesian Approach. <i>Review of Economics and Statistics</i> , <b>1984</b> , 66, 568	3.7	13
21	Measures of Predictability with Applications to the Southern Oscillation. <i>Monthly Weather Review</i> , <b>1987</b> , 115, 1542-1549	2.4	11
20	A Test for Inhomogeneous Variance in Time-averaged Temperature Data. <i>Journal of Climate</i> , <b>1993</b> , 6, 2448-2464	4.4	10
19	Persistence of Subtropical African Droughts. <i>Monthly Weather Review</i> , <b>1978</b> , 106, 1017-1021	2.4	10
18	Quantifying the Risk of Extreme Events under Climate Change. <i>Chance</i> , <b>2017</b> , 30, 30-36	1	8
17	Statistical Methods for Quantifying the Effect of the El Niño Southern Oscillation on Wind Power in the Northern Great Plains of the United States. <i>Wind Engineering</i> , <b>2007</b> , 31, 123-137	1.2	8
16	Statistical relationships between hailfall and damage to wheat. <i>Agricultural Meteorology</i> , <b>1981</b> , 24, 29-43		8
15	Sensitivity analysis of statistical crop weather models. <i>Agricultural Meteorology</i> , <b>1979</b> , 20, 291-300		8
14	A new face for climate dice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 14720-1	11.5	7
13	Moments of power transformed time series <b>1999</b> , 10, 301-307		6
12	Quality/Value Relationship for Imperfect Information in the Umbrella Problem. <i>American Statistician</i> , <b>1987</b> , 41, 187	5	6
11	Economic Value of Weather and Climate Forecasts <b>2011</b> ,		4
10	Discussion on Predicting losses of residential structures in the state of Florida by the public hurricane loss evaluation model by S. Hamid et al.. <i>Statistical Methodology</i> , <b>2010</b> , 7, 592-595		4
9	Parsimony in modeling daily precipitation. <i>Water Resources Research</i> , <b>1979</b> , 15, 1628-1630	5.4	4

8	Stochastic Modeling of the Effects of Large-Scale Circulation on Daily Weather in the Southeastern U.S. <b>2003</b> , 189-216		3
7	Modelling and forecasting seasonal precipitation in Florida: A vector time-domain approach. <i>International Journal of Climatology</i> , <b>1995</b> , 15, 53-64	3.5	3
6	Quality/Value Relationship for Imperfect Information in the Umbrella Problem. <i>American Statistician</i> , <b>1987</b> , 41, 187-189	5	3
5	Economic Impact of Extreme Events. <i>Geophysical Monograph Series</i> , 205-217	1.1	3
4	Climate change or climate regimes? Examining multi-annual variations in the frequency of precipitation extremes over the Argentine Pampas. <i>Climate Dynamics</i> , <b>2019</b> , 53, 245-260	4.2	1
3	Hydrological Extremes <b>2016</b> , 1-8		
2	Comments on Quality/value relationships for imperfect weather forecasts by Katz and Murphy. <i>Journal of Forecasting</i> , <b>1992</b> , 11, 81-88	2.1	
1	Desert rainfall. <i>Nature</i> , <b>1978</b> , 271, 7-7	50.4	