Philippe Naveau

List of Publications by Year in descending order

84 papers	**4,390** citations	147801 **31** h-index	110387 **64** g-index
95 all docs	**95** docs citations	**95** times ranked	**4502** citing authors

#	Article	IF	Citations
1	Multi-model errors and emergence times in climate attribution studies. Journal of Climate, 2022, , 1-42.	3.2	0
2	Improved Regional Frequency Analysis of rainfall data. Weather and Climate Extremes, 2022, 36, 100456.	4.1	4
3	Editorial to the special issue: Statistical modeling of environmental extremes. Extremes, 2021, 24, 197-198.	1.0	1
4	A Comparison of Moderate and Extreme ERA€5 Daily Precipitation With Two Observational Data Sets. Earth and Space Science, 2021, 8, e2020EA001633.	2.6	39
5	Combining random forests and class-balancing to discriminate between three classes of avalanche activity in the French Alps. Cold Regions Science and Technology, 2021, 187, 103276.	3.5	17
6	Extreme avalanche cycles: Return levels and probability distributions depending on snow and meteorological conditions. Weather and Climate Extremes, 2021, 33, 100344.	4.1	4
7	Forecast score distributions with imperfect observations. Advances in Statistical Climatology, Meteorology and Oceanography, 2021, 7, 53-71.	0.9	6
8	Evaluating the dependence structure of compound precipitation and wind speed extremes. Earth System Dynamics, 2021, 12, 1-16.	7.1	46
9	Statistical Methods for Extreme Event Attribution in Climate Science. Annual Review of Statistics and Its Application, 2020, 7, 89-110.	7.0	36
10	Analyses of the Northern European Summer Heatwave of 2018. Bulletin of the American Meteorological Society, 2020, 101, S35-S40.	3.3	44
11	Attribution of Extreme Wave Height Records along the North Atlantic Coasts using Hindcast Data: Feasibility and Limitations. Journal of Coastal Research, 2020, 95, 1268.	0.3	2
12	Climate extreme event attribution using multivariate peaks-over-thresholds modeling and counterfactual theory. Annals of Applied Statistics, 2020, 14, .	1.1	13
13	Forest-Based and Semiparametric Methods for the Postprocessing of Rainfall Ensemble Forecasting. Weather and Forecasting, 2019, 34, 617-634.	1.4	35
14	Multivariate stochastic bias corrections with optimal transport. Hydrology and Earth System Sciences, 2019, 23, 773-786.	4.9	29
15	Variability patterns of the annual frequency and timing of low streamflow days across the United States and their linkage to regional and large€scale climate. Hydrological Processes, 2019, 33, 1569-1578.	2.6	5
16	Trends of atmospheric circulation during singular hot days in Europe. Environmental Research Letters, 2018, 13, 054007.	5.2	21
17	Probabilities of Causation of Climate Changes. Journal of Climate, 2018, 31, 5507-5524.	3.2	21
18	Revising Return Periods for Record Events in a Climate Event Attribution Context. Journal of Climate, 2018, 31, 3411-3422.	3.2	13

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19	Estimation of the Continuous Ranked Probability Score with Limited Information and Applications to Ensemble Weather Forecasts. Mathematical Geosciences, 2018, 50, 209-234.	2.4	60
20	Extracting a Common Signal in Tree Ring Widths with a Semi-parametric Bayesian Hierarchical Model. Journal of Agricultural, Biological, and Environmental Statistics, 2018, 23, 550-565.	1.4	1
21	A new statistical approach to climate change detection and attribution. Climate Dynamics, 2017, 48, 367-386.	3.8	59
22	Non-linear models for extremal dependence. Journal of Multivariate Analysis, 2017, 159, 49-66.	1.0	7
23	A semiâ€parametric stochastic generator for bivariate extreme events. Stat, 2017, 6, 184-201.	0.4	7
24	Identifying local smoothness for spatially inhomogeneous functions. Computational Statistics, 2017, 32, 1115-1138.	1.5	0
25	Detecting distributional changes in samples of independent block maxima using probability weighted moments. Extremes, 2017, 20, 417-450.	1.0	7
26	Detecting changes in forced climate attractors with Wasserstein distance. Nonlinear Processes in Geophysics, 2017, 24, 393-405.	1.3	24
27	A statistical framework for conditional extreme event attribution. Advances in Statistical Climatology, Meteorology and Oceanography, 2017, 3, 17-31.	0.9	32
28	Evaluating lossy data compression on climate simulation data within a large ensemble. Geoscientific Model Development, 2016, 9, 4381-4403.	3.6	56
29	Modeling jointly low, moderate, and heavy rainfall intensities without a threshold selection. Water Resources Research, 2016, 52, 2753-2769.	4.2	85
30	A limiting distribution for maxima of discrete stationary triangular arrays with an application to risk due to avalanches. Extremes, 2016, 19, 25-40.	1.0	9
31	Skew generalized extreme value distribution: Probability-weighted moments estimation and application to block maxima procedure. Communications in Statistics - Theory and Methods, 2016, 45, 5037-5052.	1.0	6
32	Calibrated Ensemble Forecasts Using Quantile Regression Forests and Ensemble Model Output Statistics. Monthly Weather Review, 2016, 144, 2375-2393.	1.4	136
33	Causal Counterfactual Theory for the Attribution of Weather and Climate-Related Events. Bulletin of the American Meteorological Society, 2016, 97, 99-110.	3.3	118
34	A frailty-contagion model for multi-site hourly precipitation driven by atmospheric covariates. Advances in Water Resources, 2015, 78, 145-154.	3.8	3
35	On the evaluation of climate model simulated precipitation extremes. Environmental Research Letters, 2015, 10, 014012.	5.2	23
36	Spatial clustering of summer temperature maxima from the CNRM-CM5 climate model ensembles & E-OBS over Europe. Weather and Climate Extremes, 2015, 9, 17-24.	4.1	30

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37	A folding methodology for multivariate extremes: estimation of the spectral probability measure and actuarial applications. Scandinavian Actuarial Journal, 2015, 2015, 549-572.	1.7	2
38	Optimal fingerprinting under multiple sources of uncertainty. Geophysical Research Letters, 2014, 41, 1261-1268.	4.0	30
39	A Non-Parametric Entropy-Based Approach to Detect Changes in Climate Extremes. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2014, 76, 861-884.	2.2	14
40	Estimating high dimensional covariance matrices: A new look at the Gaussian conjugate framework. Journal of Multivariate Analysis, 2014, 131, 149-162.	1.0	21
41	Bayesian Dirichlet mixture model for multivariate extremes: A re-parametrization. Computational Statistics and Data Analysis, 2014, 71, 542-567.	1.2	28
42	An automatized homogenization procedure via pairwise comparisons with application to Argentinean temperature series. International Journal of Climatology, 2014, 34, 3528-3545.	3.5	9
43	Disconcerting learning on climate sensitivity and the uncertain future of uncertainty. Climatic Change, 2013, 119, 585-601.	3.6	16
44	Particle filtering for Gumbelâ€distributed daily maxima of methane and nitrous oxide. Environmetrics, 2013, 24, 51-62.	1.4	6
45	Bayesian model averaging for multivariate extremes. Extremes, 2013, 16, 325-350.	1.0	14
46	Clustering of Maxima: Spatial Dependencies among Heavy Rainfall in France. Journal of Climate, 2013, 26, 7929-7937.	3.2	75
47	Extracting common pulse-like signals from multiple ice core time series. Computational Statistics and Data Analysis, 2013, 58, 45-57.	1.2	3
48	Projections of global changes in precipitation extremes from Coupled Model Intercomparison Project Phase 5 models. Geophysical Research Letters, 2013, 40, 4887-4892.	4.0	120
49	Approximating the conditional density given large observed values via a multivariate extremes framework, with application to environmental data. Annals of Applied Statistics, 2012, 6, .	1.1	15
50	An Improved Bayesian Information Criterion forÂMultiple Change-Point Models. Technometrics, 2012, 54, 256-268.	1.9	20
51	Inferring change points and nonlinear trends in multivariate time series: Application to West African monsoon onset timings estimation. Journal of Geophysical Research, 2011, 116, .	3.3	17
52	A note of caution when interpreting parameters of the distribution of excesses. Advances in Water Resources, 2011, 34, 1215-1221.	3.8	12
53	Extreme events: dynamics, statistics and prediction. Nonlinear Processes in Geophysics, 2011, 18, 295-350.	1.3	197
54	An extension of max autoregressive models. Statistics and Its Interface, 2011, 4, 253-266.	0.3	8

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55	Autoregressive models for maxima and their applications to CH_4 and N_2O. Environmetrics, 2010, 21, 189-207.	1.4	6
56	Editorial: special issue on statistics of extremes in weather and climate. Extremes, 2010, 13, 107-108.	1.0	5
57	Improving extreme quantile estimation via a folding procedure. Journal of Statistical Planning and Inference, 2010, 140, 1775-1787.	0.6	2
58	The pairwise beta distribution: A flexible parametric multivariate model for extremes. Journal of Multivariate Analysis, 2010, 101, 2103-2117.	1.0	50
59	A response to bradwell's commentary on recent statistical studies in lichenometry. Geografiska Annaler, Series A: Physical Geography, 2010, 92, 485-487.	1.5	5
60	Multimodel Combination by a Bayesian Hierarchical Model: Assessment of Ice Accumulation over the Oceanic Arctic Region. Journal of Climate, 2010, 23, 5421-5436.	3.2	3
61	Truncated skew-normal distributions: moments, estimation by weighted moments and application to climatic data. Metron, 2010, 68, 331-345.	1.2	32
62	Modelling pairwise dependence of maxima in space. Biometrika, 2009, 96, 1-17.	2.4	106
63	Statistical downscaling of near-surface wind over complex terrain in southern France. Meteorology and Atmospheric Physics, 2009, 103, 253-265.	2.0	70
64	A chronology of the Little Ice Age in the tropical Andes of Bolivia (16Â°S) and its implications for climate reconstruction. Quaternary Research, 2008, 70, 198-212.	1.7	68
65	Fish tooth Î´18O revising Late Cretaceous meridional upper ocean water temperature gradients. Geology, 2007, 35, 107.	4.4	88
66	Modeling Uncertainties in Lichenometry Studies. Arctic, Antarctic, and Alpine Research, 2007, 39, 277-285.	1.1	24
67	Assessment study of lichenometric methods for dating surfaces. Geomorphology, 2007, 86, 131-143.	2.6	49
68	Bayesian Spatial Modeling of Extreme Precipitation Return Levels. Journal of the American Statistical Association, 2007, 102, 824-840.	3.1	394
69	A New Spatial Skew-Normal Random Field Model. Communications in Statistics - Theory and Methods, 2007, 36, 1821-1834.	1.0	62
70	Probability weighted moments properties for small samples. Statistics and Probability Letters, 2007, 77, 190-195.	0.7	13
71	Statistical analysis of floods in Bohemia (Czech Republic) since 1825. Hydrological Sciences Journal, 2006, 51, 930-945.	2.6	36
72	Reconstruction of past precipitation Î´18O using tree-ring cellulose Î´18O and Î´13C: A calibration study near Lac d'Annecy, France. Earth and Planetary Science Letters, 2006, 243, 439-448.	4.4	80

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73	A Bayesian hierarchical extreme value model for lichenometry. Environmetrics, 2006, 17, 555-574.	1.4	67
74	A skewed Kalman filter. Journal of Multivariate Analysis, 2005, 94, 382-400.	1.0	35
75	Statistical methods for the analysis of climate extremes. Comptes Rendus - Geoscience, 2005, 337, 1013-1022.	1.2	87
76	Dating of Little Ice Age glacier fluctuations in the tropical Andes: Charquini glaciers, Bolivia, 16°S. Comptes Rendus - Geoscience, 2005, 337, 1311-1322.	1.2	46
77	Polynomial Wavelet Regression for Images With Irregular Boundaries. IEEE Transactions on Image Processing, 2004, 13, 773-781.	9.8	3
78	Multi-resolution time series analysis applied to solar irradiance and climate reconstructions. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 191-201.	1.6	41
79	Statistical analysis of tropical explosive volcanism occurrences over the last 6 centuries. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	51
80	An automatic statistical methodology to extract pulse-like forcing factors in climatic time series: Application to volcanic events. Geophysical Monograph Series, 2003, , 177-186.	0.1	10
81	Almost sure relative stability of the maximum of a stationary sequence. Advances in Applied Probability, 2003, 35, 721-736.	0.7	2
82	Statistics of extremes in hydrology. Advances in Water Resources, 2002, 25, 1287-1304.	3.8	1,251
83	Comparison between the Chernoff and Factorial Moment Bounds for Discrete Random Variables. American Statistician, 1997, 51, 40-41.	1.6	7
84	Non Linear Models for Extremal Dependence. SSRN Electronic Journal, 0, , .	0.4	1