

Philippe Naveau

List of Publications by Year in descending order

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84
papers

4,390
citations

147566

31
h-index

110170

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. <i>Journal of Climate</i> , 2022, , 1-42.	1.2	0
2	Improved Regional Frequency Analysis of rainfall data. <i>Weather and Climate Extremes</i> , 2022, 36, 100456.	1.6	4
3	Editorial to the special issue: Statistical modeling of environmental extremes. <i>Extremes</i> , 2021, 24, 197-198.	0.5	1
4	A Comparison of Moderate and Extreme ERA-5 Daily Precipitation With Two Observational Data Sets. <i>Earth and Space Science</i> , 2021, 8, e2020EA001633.	1.1	39
5	Combining random forests and class-balancing to discriminate between three classes of avalanche activity in the French Alps. <i>Cold Regions Science and Technology</i> , 2021, 187, 103276.	1.6	17
6	Extreme avalanche cycles: Return levels and probability distributions depending on snow and meteorological conditions. <i>Weather and Climate Extremes</i> , 2021, 33, 100344.	1.6	4
7	Forecast score distributions with imperfect observations. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2021, 7, 53-71.	0.6	6
8	Evaluating the dependence structure of compound precipitation and wind speed extremes. <i>Earth System Dynamics</i> , 2021, 12, 1-16.	2.7	46
9	Statistical Methods for Extreme Event Attribution in Climate Science. <i>Annual Review of Statistics and Its Application</i> , 2020, 7, 89-110.	4.1	36
10	Analyses of the Northern European Summer Heatwave of 2018. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S35-S40.	1.7	44
11	Attribution of Extreme Wave Height Records along the North Atlantic Coasts using Hindcast Data: Feasibility and Limitations. <i>Journal of Coastal Research</i> , 2020, 95, 1268.	0.1	2
12	Climate extreme event attribution using multivariate peaks-over-thresholds modeling and counterfactual theory. <i>Annals of Applied Statistics</i> , 2020, 14, .	0.5	13
13	Forest-Based and Semiparametric Methods for the Postprocessing of Rainfall Ensemble Forecasting. <i>Weather and Forecasting</i> , 2019, 34, 617-634.	0.5	35
14	Multivariate stochastic bias corrections with optimal transport. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 773-786.	1.9	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. <i>Hydrological Processes</i> , 2019, 33, 1569-1578.	1.1	5
16	Trends of atmospheric circulation during singular hot days in Europe. <i>Environmental Research Letters</i> , 2018, 13, 054007.	2.2	21
17	Probabilities of Causation of Climate Changes. <i>Journal of Climate</i> , 2018, 31, 5507-5524.	1.2	21
18	Revising Return Periods for Record Events in a Climate Event Attribution Context. <i>Journal of Climate</i> , 2018, 31, 3411-3422.	1.2	13

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19	Estimation of the Continuous Ranked Probability Score with Limited Information and Applications to Ensemble Weather Forecasts. <i>Mathematical Geosciences</i> , 2018, 50, 209-234.	1.4	60
20	Extracting a Common Signal in Tree Ring Widths with a Semi-parametric Bayesian Hierarchical Model. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2018, 23, 550-565.	0.7	1
21	A new statistical approach to climate change detection and attribution. <i>Climate Dynamics</i> , 2017, 48, 367-386.	1.7	59
22	Non-linear models for extremal dependence. <i>Journal of Multivariate Analysis</i> , 2017, 159, 49-66.	0.5	7
23	A semi-parametric stochastic generator for bivariate extreme events. <i>Stat</i> , 2017, 6, 184-201.	0.3	7
24	Identifying local smoothness for spatially inhomogeneous functions. <i>Computational Statistics</i> , 2017, 32, 1115-1138.	0.8	0
25	Detecting distributional changes in samples of independent block maxima using probability weighted moments. <i>Extremes</i> , 2017, 20, 417-450.	0.5	7
26	Detecting changes in forced climate attractors with Wasserstein distance. <i>Nonlinear Processes in Geophysics</i> , 2017, 24, 393-405.	0.6	24
27	A statistical framework for conditional extreme event attribution. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2017, 3, 17-31.	0.6	32
28	Evaluating lossy data compression on climate simulation data within a large ensemble. <i>Geoscientific Model Development</i> , 2016, 9, 4381-4403.	1.3	56
29	Modeling jointly low, moderate, and heavy rainfall intensities without a threshold selection. <i>Water Resources Research</i> , 2016, 52, 2753-2769.	1.7	85
30	A limiting distribution for maxima of discrete stationary triangular arrays with an application to risk due to avalanches. <i>Extremes</i> , 2016, 19, 25-40.	0.5	9
31	Skew generalized extreme value distribution: Probability-weighted moments estimation and application to block maxima procedure. <i>Communications in Statistics - Theory and Methods</i> , 2016, 45, 5037-5052.	0.6	6
32	Calibrated Ensemble Forecasts Using Quantile Regression Forests and Ensemble Model Output Statistics. <i>Monthly Weather Review</i> , 2016, 144, 2375-2393.	0.5	136
33	Causal Counterfactual Theory for the Attribution of Weather and Climate-Related Events. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 99-110.	1.7	118
34	A frailty-contagion model for multi-site hourly precipitation driven by atmospheric covariates. <i>Advances in Water Resources</i> , 2015, 78, 145-154.	1.7	3
35	On the evaluation of climate model simulated precipitation extremes. <i>Environmental Research Letters</i> , 2015, 10, 014012.	2.2	23
36	Spatial clustering of summer temperature maxima from the CNRM-CM5 climate model ensembles & E-OBS over Europe. <i>Weather and Climate Extremes</i> , 2015, 9, 17-24.	1.6	30

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37	A folding methodology for multivariate extremes: estimation of the spectral probability measure and actuarial applications. <i>Scandinavian Actuarial Journal</i> , 2015, 2015, 549-572.	1.0	2
38	Optimal fingerprinting under multiple sources of uncertainty. <i>Geophysical Research Letters</i> , 2014, 41, 1261-1268.	1.5	30
39	A Non-Parametric Entropy-Based Approach to Detect Changes in Climate Extremes. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2014, 76, 861-884.	1.1	14
40	Estimating high dimensional covariance matrices: A new look at the Gaussian conjugate framework. <i>Journal of Multivariate Analysis</i> , 2014, 131, 149-162.	0.5	21
41	Bayesian Dirichlet mixture model for multivariate extremes: A re-parametrization. <i>Computational Statistics and Data Analysis</i> , 2014, 71, 542-567.	0.7	28
42	An automatized homogenization procedure via pairwise comparisons with application to Argentinean temperature series. <i>International Journal of Climatology</i> , 2014, 34, 3528-3545.	1.5	9
43	Disconcerting learning on climate sensitivity and the uncertain future of uncertainty. <i>Climatic Change</i> , 2013, 119, 585-601.	1.7	16
44	Particle filtering for Gumbel-distributed daily maxima of methane and nitrous oxide. <i>Environmetrics</i> , 2013, 24, 51-62.	0.6	6
45	Bayesian model averaging for multivariate extremes. <i>Extremes</i> , 2013, 16, 325-350.	0.5	14
46	Clustering of Maxima: Spatial Dependencies among Heavy Rainfall in France. <i>Journal of Climate</i> , 2013, 26, 7929-7937.	1.2	75
47	Extracting common pulse-like signals from multiple ice core time series. <i>Computational Statistics and Data Analysis</i> , 2013, 58, 45-57.	0.7	3
48	Projections of global changes in precipitation extremes from Coupled Model Intercomparison Project Phase 5 models. <i>Geophysical Research Letters</i> , 2013, 40, 4887-4892.	1.5	120
49	Approximating the conditional density given large observed values via a multivariate extremes framework, with application to environmental data. <i>Annals of Applied Statistics</i> , 2012, 6, .	0.5	15
50	An Improved Bayesian Information Criterion for Multiple Change-Point Models. <i>Technometrics</i> , 2012, 54, 256-268.	1.3	20
51	Inferring change points and nonlinear trends in multivariate time series: Application to West African monsoon onset timings estimation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	17
52	A note of caution when interpreting parameters of the distribution of excesses. <i>Advances in Water Resources</i> , 2011, 34, 1215-1221.	1.7	12
53	Extreme events: dynamics, statistics and prediction. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 295-350.	0.6	197
54	An extension of max autoregressive models. <i>Statistics and Its Interface</i> , 2011, 4, 253-266.	0.2	8

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55	Autoregressive models for maxima and their applications to CH_4 and N_2O . <i>Environmetrics</i> , 2010, 21, 189-207.	0.6	6
56	Editorial: special issue on statistics of extremes in weather and climate. <i>Extremes</i> , 2010, 13, 107-108.	0.5	5
57	Improving extreme quantile estimation via a folding procedure. <i>Journal of Statistical Planning and Inference</i> , 2010, 140, 1775-1787.	0.4	2
58	The pairwise beta distribution: A flexible parametric multivariate model for extremes. <i>Journal of Multivariate Analysis</i> , 2010, 101, 2103-2117.	0.5	50
59	A response to bradwell's commentary on recent statistical studies in lichenometry. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2010, 92, 485-487.	0.6	5
60	Multimodel Combination by a Bayesian Hierarchical Model: Assessment of Ice Accumulation over the Oceanic Arctic Region. <i>Journal of Climate</i> , 2010, 23, 5421-5436.	1.2	3
61	Truncated skew-normal distributions: moments, estimation by weighted moments and application to climatic data. <i>Metron</i> , 2010, 68, 331-345.	0.6	32
62	Modelling pairwise dependence of maxima in space. <i>Biometrika</i> , 2009, 96, 1-17.	1.3	106
63	Statistical downscaling of near-surface wind over complex terrain in southern France. <i>Meteorology and Atmospheric Physics</i> , 2009, 103, 253-265.	0.9	70
64	A chronology of the Little Ice Age in the tropical Andes of Bolivia ($16^\circ S$) and its implications for climate reconstruction. <i>Quaternary Research</i> , 2008, 70, 198-212.	1.0	68
65	Fish tooth $\delta^{18}O$ revising Late Cretaceous meridional upper ocean water temperature gradients. <i>Geology</i> , 2007, 35, 107.	2.0	88
66	Modeling Uncertainties in Lichenometry Studies. <i>Arctic, Antarctic, and Alpine Research</i> , 2007, 39, 277-285.	0.4	24
67	Assessment study of lichenometric methods for dating surfaces. <i>Geomorphology</i> , 2007, 86, 131-143.	1.1	49
68	Bayesian Spatial Modeling of Extreme Precipitation Return Levels. <i>Journal of the American Statistical Association</i> , 2007, 102, 824-840.	1.8	394
69	A New Spatial Skew-Normal Random Field Model. <i>Communications in Statistics - Theory and Methods</i> , 2007, 36, 1821-1834.	0.6	62
70	Probability weighted moments properties for small samples. <i>Statistics and Probability Letters</i> , 2007, 77, 190-195.	0.4	13
71	Statistical analysis of floods in Bohemia (Czech Republic) since 1825. <i>Hydrological Sciences Journal</i> , 2006, 51, 930-945.	1.2	36
72	Reconstruction of past precipitation $\delta^{18}O$ using tree-ring cellulose $\delta^{18}O$ and $\delta^{13}C$: A calibration study near Lac d'Annecy, France. <i>Earth and Planetary Science Letters</i> , 2006, 243, 439-448.	1.8	80

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73	A Bayesian hierarchical extreme value model for lichenometry. <i>Environmetrics</i> , 2006, 17, 555-574.	0.6	67
74	A skewed Kalman filter. <i>Journal of Multivariate Analysis</i> , 2005, 94, 382-400.	0.5	35
75	Statistical methods for the analysis of climate extremes. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 1013-1022.	0.4	87
76	Dating of Little Ice Age glacier fluctuations in the tropical Andes: Charquini glaciers, Bolivia, 16°S. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 1311-1322.	0.4	46
77	Polynomial Wavelet Regression for Images With Irregular Boundaries. <i>IEEE Transactions on Image Processing</i> , 2004, 13, 773-781.	6.0	3
78	Multi-resolution time series analysis applied to solar irradiance and climate reconstructions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003, 65, 191-201.	0.6	41
79	Statistical analysis of tropical explosive volcanism occurrences over the last 6 centuries. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	51
80	An automatic statistical methodology to extract pulse-like forcing factors in climatic time series: Application to volcanic events. <i>Geophysical Monograph Series</i> , 2003, , 177-186.	0.1	10
81	Almost sure relative stability of the maximum of a stationary sequence. <i>Advances in Applied Probability</i> , 2003, 35, 721-736.	0.4	2
82	Statistics of extremes in hydrology. <i>Advances in Water Resources</i> , 2002, 25, 1287-1304.	1.7	1,251
83	Comparison between the Chernoff and Factorial Moment Bounds for Discrete Random Variables. <i>American Statistician</i> , 1997, 51, 40-41.	0.9	7
84	Non Linear Models for Extremal Dependence. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1