# AurÃ©lien Ribes

List of Publications by Year
in descending order



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|---|---|---|---|
| 55 papers | 3,089 citations | 186265 28 h-index | 168389 53 g-index |
| 78 all docs | 78 docs citations | 78 times ranked | 4494 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Quantifying CMIP6 model uncertainties in extreme precipitation projections. Weather and Climate Extremes, 2022, 36, 100435. | 4.1 | 26 |
| 2 | How to Calibrate a Dynamical System With Neural Network Based Physics?. Geophysical Research Letters, 2022, 49, . | 4.0 | 3 |
| 3 | Impacts du changement climatique sur les pluies intenses et les crues en MÃ©diterranÃ©e. LHB Hydroscience Journal, 2021, 107, 1-5. | 0.5 | 3 |
| 4 | Constraining human contributions to observed warming since the pre-industrial period. Nature Climate Change, 2021, 11, 207-212. | 18.8 | 108 |
| 5 | Making climate projections conditional on historical observations. Science Advances, 2021, 7, . | 10.3 | 89 |
| 6 | A Toy Model to Investigate Stability of Alâ€Based Dynamical Systems. Geophysical Research Letters, 2021, 48, e2020GL092133. | 4.0 | 4 |
| 7 | Tracking Changes in Climate Sensitivity in CNRM Climate Models. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002190. | 3.8 | 7 |
| 8 | Local sea level trends, accelerations and uncertainties over 1993â€“2019. Scientific Data, 2021, 8, 1. | 5.3 | 255 |
| 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 | Human contribution to the record-breaking June and July 2019 heatwaves in Western Europe. Environmental Research Letters, 2020, 15, 094077. | 5.2 | 95 |
| 11 | Analyses of the Northern European Summer Heatwave of 2018. Bulletin of the American Meteorological Society, 2020, 101, S35-S40. | 3.3 | 44 |
| 12 | Describing the Relationship between a Weather Event and Climate Change: A New Statistical Approach. Journal of Climate, 2020, 33, 6297-6314. | 3.2 | 13 |
| 13 | Observational Constraint on Greenhouse Gas and Aerosol Contributions to Global Ocean Heat Content Changes. Journal of Climate, 2020, 33, 10579-10591. | 3.2 | 3 |
| 14 | Comparing Methods to Constrain Future European Climate Projections Using a Consistent Framework. Journal of Climate, 2020, 33, 8671-8692. | 3.2 | 37 |
| 15 | Nonstationary extreme value analysis for event attribution combining climate models and observations. Advances in Statistical Climatology, Meteorology and Oceanography, 2020, 6, 205-221. | 0.9 | 10 |
| 16 | Evaluation of CNRM Earth System Model, CNRMâ€ESM2â€1: Role of Earth System Processes in Presentâ€Day and Future Climate. Journal of Advances in Modeling Earth Systems, 2019, 11, 4182-4227. | 3.8 | 309 |
| 17 | Quantifying human contributions to past and future ocean warming and thermosteric sea level rise. Environmental Research Letters, 2019, 14, 074020. | 5.2 | 24 |
| 18 | Fastâ€Forward to Perturbed Equilibrium Climate. Geophysical Research Letters, 2019, 46, 8969-8975. | 4.0 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Evaluation of CMIP6 DECK Experiments With CNRMâ€CM6â€1. Journal of Advances in Modeling Earth Systems, 2019, 11, 2177-2213. | 3.8 | 494 |
| 20 | Estimating daily climatological normals in a changing climate. Climate Dynamics, 2019, 53, 275-286. | 3.8 | 12 |
| 21 | Breakdown of NAO reproducibility into internal versus externally-forced components: a two-tier pilot study. Climate Dynamics, 2019, 52, 29-48. | 3.8 | 0 |
| 22 | Observed increase in extreme daily rainfall in the French Mediterranean. Climate Dynamics, 2019, 52, 1095-1114. | 3.8 | 42 |
| 23 | Uncertainty in satellite estimates of global mean sea-level changes, trend and acceleration. Earth System Science Data, 2019, 11, 1189-1202. | 9.9 | 97 |
| 24 | Trends of atmospheric circulation during singular hot days in Europe. Environmental Research Letters, 2018, 13, 054007. | 5.2 | 21 |
| 25 | Contribution of environmental forcings to US runoff changes for the period 1950â€“2010. Environmental Research Letters, 2018, 13, 054023. | 5.2 | 9 |
| 26 | Revising Return Periods for Record Events in a Climate Event Attribution Context. Journal of Climate, 2018, 31, 3411-3422. | 3.2 | 13 |
| 27 | Defining Single Extreme Weather Events in a Climate Perspective. Bulletin of the American Meteorological Society, 2018, 99, 1557-1568. | 3.3 | 42 |
| 28 | Recent Trends in the Recurrence of North Atlantic Atmospheric Circulation Patterns. Complexity, 2018, 2018, 1-8. | 1.6 | 8 |
| 29 | Exploring the uncertainty in GRACE estimates of the mass redistributions at the Earth surface: implications for the global water and sea level budgets. Geophysical Journal International, 2018, 215, 415-430. | 2.4 | 52 |
| 30 | Estimating the Transient Climate Response from Observed Warming. Journal of Climate, 2018, 31, 8645-8663. | 3.2 | 37 |
| 31 | A new statistical approach to climate change detection and attribution. Climate Dynamics, 2017, 48, 367-386. | 3.8 | 59 |
| 32 | Atlantic tropical cyclones water budget in observations and CNRM-CM5 model. Climate Dynamics, 2017, 49, 4009-4021. | 3.8 | 8 |
| 33 | Is future climate predictable with statistics?. ESAIM Proceedings and Surveys, 2017, 60, 104-113. | 0.4 | 0 |
| 34 | Issues in estimating observed change at the local scale - a case study: the recent warming over France. International Journal of Climatology, 2016, 36, 3794-3806. | 3.5 | 20 |
| 35 | Human-induced greening of the northern extratropical land surface. Nature Climate Change, 2016, 6, 959-963. | 18.8 | 145 |
| 36 | Multivariate spline analysis for multiplicative models: Estimation, testing and application to climate change. Journal of Multivariate Analysis, 2016, 144, 38-53. | 1.0 | 1 |

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|---|---|---|---|
| 37 | Extreme Fall 2014 Precipitation in the CÃ©vennes Mountains. Bulletin of the American Meteorological Society, 2015, 96, S56-S60. | 3.3 | 33 |
| 38 | Designing Detection and Attribution Simulations for CMIP6 to Optimize the Estimation of Greenhouse Gasâ€“Induced Warming. Journal of Climate, 2015, 28, 3435-3438. | 3.2 | 15 |
| 39 | Le climat du dernier millÃ©naire. La MÃ©tÃ©orologie, 2015, 8, 36. | 0.5 | 3 |
| 40 | Optimal fingerprinting under multiple sources of uncertainty. Geophysical Research Letters, 2014, 41, 1261-1268. | 4.0 | 30 |
| 41 | Detecting the anthropogenic influences on recent changes in ocean carbon uptake. Geophysical Research Letters, 2014, 41, 5968-5977. | 4.0 | 20 |
| 42 | Detection and Attribution. Advances in Global Change Research, 2013, , 157-186. | 1.6 | 4 |
| 43 | Application of regularised optimal fingerprinting to attribution. Part I: method, properties and idealised analysis. Climate Dynamics, 2013, 41, 2817-2836. | 3.8 | 139 |
| 44 | Application of regularised optimal fingerprinting to attribution. Part II: application to global near-surface temperature. Climate Dynamics, 2013, 41, 2837-2853. | 3.8 | 87 |
| 45 | Towards a better understanding of changes in wintertime cold extremes over Europe: a pilot study with CNRM and IPSL atmospheric models. Climate Dynamics, 2013, 40, 2433-2445. | 3.8 | 32 |
| 46 | Anthropogenic influence on multidecadal changes in reconstructed global evapotranspiration. Nature Climate Change, 2013, 3, 59-62. | 18.8 | 159 |
| 47 | Detection of global runoff changes: results from observations and CMIP5 experiments. Hydrology and Earth System Sciences, 2013, 17, 2967-2979. | 4.9 | 64 |
| 48 | Near-Surface Salinity as Natureâ€™s Rain Gauge to Detect Human Influence on the Tropical Water Cycle. Journal of Climate, 2012, 25, 958-977. | 3.2 | 122 |
| 49 | Quantifying the sources of spread in climate change experiments. Geophysical Research Letters, 2012, 39, . | 4.0 | 27 |
| 50 | Can oceanic reanalyses be used to assess recent anthropogenic changes and low-frequency internal variability of upper ocean temperature?. Climate Dynamics, 2012, 38, 877-896. | 3.8 | 13 |
| 51 | European cold winter 2009-2010: How unusual in the instrumental record and how reproducible in the ARPEGE-Climat model?. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 35 |
| 52 | Analysis of the tropical climate variability in a two-column framework. Climate Dynamics, 2011, 37, 73-81. | 3.8 | 3 |
| 53 | Trends in Global and Basin-Scale Runoff over the Late Twentieth Century: Methodological Issues and Sources of Uncertainty. Journal of Climate, 2011, 24, 3000-3014. | 3.2 | 64 |
| 54 | A method for regional climate change detection using smooth temporal patterns. Climate Dynamics, 2010, 35, 391-406. | 3.8 | 32 |

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|---|---|---|---|
| 55 | Adaptation of the optimal fingerprint method for climate change detection using a well-conditioned covariance matrix estimate. Climate Dynamics, 2009, 33, 707-722. | 3.8 | 50 |