AurÃ©lien Ribes

List of Publications by Year
in descending order

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	Evaluation of CMIP6 DECK Experiments With CNRMâ€CM6â€1. Journal of Advances in Modeling Earth Systems, 2019, 11, 2177-2213.	3.8	494
2	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
3	Local sea level trends, accelerations and uncertainties over 1993â€“2019. Scientific Data, 2021, 8, 1.	5.3	255
4	Anthropogenic influence on multidecadal changes in reconstructed global evapotranspiration. Nature Climate Change, 2013, 3, 59-62.	18.8	159
5	Human-induced greening of the northern extratropical land surface. Nature Climate Change, 2016, 6, 959-963.	18.8	145
6	Application of regularised optimal fingerprinting to attribution. Part I: method, properties and idealised analysis. Climate Dynamics, 2013, 41, 2817-2836.	3.8	139
7	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
8	Constraining human contributions to observed warming since the pre-industrial period. Nature Climate Change, 2021, 11, 207-212.	18.8	108
9	Uncertainty in satellite estimates of global mean sea-level changes, trend and acceleration. Earth System Science Data, 2019, 11, 1189-1202.	9.9	97
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	Making climate projections conditional on historical observations. Science Advances, 2021, 7, .	10.3	89
12	Application of regularised optimal fingerprinting to attribution. Part II: application to global near-surface temperature. Climate Dynamics, 2013, 41, 2837-2853.	3.8	87
13	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
14	Detection of global runoff changes: results from observations and CMIP5 experiments. Hydrology and Earth System Sciences, 2013, 17, 2967-2979.	4.9	64
15	A new statistical approach to climate change detection and attribution. Climate Dynamics, 2017, 48, 367-386.	3.8	59
16	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
17	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
18	Analyses of the Northern European Summer Heatwave of 2018. Bulletin of the American Meteorological Society, 2020, 101, S35-S40.	3.3	44

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19	Defining Single Extreme Weather Events in a Climate Perspective. Bulletin of the American Meteorological Society, 2018, 99, 1557-1568.	3.3	42
20	Observed increase in extreme daily rainfall in the French Mediterranean. Climate Dynamics, 2019, 52, 1095-1114.	3.8	42
21	Estimating the Transient Climate Response from Observed Warming. Journal of Climate, 2018, 31, 8645-8663.	3.2	37
22	Comparing Methods to Constrain Future European Climate Projections Using a Consistent Framework. Journal of Climate, 2020, 33, 8671-8692.	3.2	37
23	Statistical Methods for Extreme Event Attribution in Climate Science. Annual Review of Statistics and Its Application, 2020, 7, 89-110.	7.0	36
24	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
25	Extreme Fall 2014 Precipitation in the CÃ©vennes Mountains. Bulletin of the American Meteorological Society, 2015, 96, S56-S60.	3.3	33
26	A method for regional climate change detection using smooth temporal patterns. Climate Dynamics, 2010, 35, 391-406.	3.8	32
27	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
28	Optimal fingerprinting under multiple sources of uncertainty. Geophysical Research Letters, 2014, 41, 1261-1268.	4.0	30
29	Quantifying the sources of spread in climate change experiments. Geophysical Research Letters, 2012, 39, .	4.0	27
30	Quantifying CMIP6 model uncertainties in extreme precipitation projections. Weather and Climate Extremes, 2022, 36, 100435.	4.1	26
31	Quantifying human contributions to past and future ocean warming and thermosteric sea level rise. Environmental Research Letters, 2019, 14, 074020.	5.2	24
32	Trends of atmospheric circulation during singular hot days in Europe. Environmental Research Letters, 2018, 13, 054007.	5.2	21
33	Detecting the anthropogenic influences on recent changes in ocean carbon uptake. Geophysical Research Letters, 2014, 41, 5968-5977.	4.0	20
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	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
36	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

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37	Revising Return Periods for Record Events in a Climate Event Attribution Context. Journal of Climate, 2018, 31, 3411-3422.	3.2	13
38	Describing the Relationship between a Weather Event and Climate Change: A New Statistical Approach. Journal of Climate, 2020, 33, 6297-6314.	3.2	13
39	Estimating daily climatological normals in a changing climate. Climate Dynamics, 2019, 53, 275-286.	3.8	12
40	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
41	Contribution of environmental forcings to US runoff changes for the period 1950â€“2010. Environmental Research Letters, 2018, 13, 054023.	5.2	9
42	Atlantic tropical cyclones water budget in observations and CNRM-CM5 model. Climate Dynamics, 2017, 49, 4009-4021.	3.8	8
43	Recent Trends in the Recurrence of North Atlantic Atmospheric Circulation Patterns. Complexity, 2018, 2018, 1-8.	1.6	8
44	Fastâ€Forward to Perturbed Equilibrium Climate. Geophysical Research Letters, 2019, 46, 8969-8975.	4.0	8
45	Tracking Changes in Climate Sensitivity in CNRM Climate Models. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002190.	3.8	7
46	Detection and Attribution. Advances in Global Change Research, 2013, , 157-186.	1.6	4
47	A Toy Model to Investigate Stability of Alâ€Based Dynamical Systems. Geophysical Research Letters, 2021, 48, e2020GL092133.	4.0	4
48	Analysis of the tropical climate variability in a two-column framework. Climate Dynamics, 2011, 37, 73-81.	3.8	3
49	Observational Constraint on Greenhouse Gas and Aerosol Contributions to Global Ocean Heat Content Changes. Journal of Climate, 2020, 33, 10579-10591.	3.2	3
50	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
51	Le climat du dernier millÃ©naire. La MÃ©tÃ©orologie, 2015, 8, 36.	0.5	3
52	How to Calibrate a Dynamical System With Neural Network Based Physics?. Geophysical Research Letters, 2022, 49, .	4.0	3
53	Multivariate spline analysis for multiplicative models: Estimation, testing and application to climate change. Journal of Multivariate Analysis, 2016, 144, 38-53.	1.0	1
54	Is future climate predictable with statistics?. ESAIM Proceedings and Surveys, 2017, 60, 104-113.	0.4	0

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55	Breakdown of NAO reproducibility into internal versus externally-forced components: a two-tier pilot study. Climate Dynamics, 2019, 52, 29-48.	3.8	0