

Chris E Forest

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,728
citations

172207

29
h-index

155451

55
g-index

67
all docs

67
docs citations

67
times ranked

4417
citing authors

#	ARTICLE	IF	CITATIONS
1	Constraining climate model parameters from observed 20th century changes. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 60, 911.	0.8	51
2	Trade-offs and synergies in managing coastal flood risk: A case study for New York City. <i>Journal of Flood Risk Management</i> , 2022, 15, e12771.	1.6	5
3	Attention to values helps shape convergence research. <i>Climatic Change</i> , 2022, 170, 1.	1.7	2
4	Causes and impacts of sea ice variability in the sea of Okhotsk using CESM-LE. <i>Climate Dynamics</i> , 2021, 56, 2007-2021.	1.7	2
5	Distributed and localized cooling with thermoelectrics. <i>Joule</i> , 2021, 5, 748-751.	11.7	34
6	Assessing and reducing the environmental impact of dairy production systems in the northern US in a changing climate. <i>Agricultural Systems</i> , 2021, 192, 103170.	3.2	6
7	Deep Uncertainties in Sea-Level Rise and Storm Surge Projections: Implications for Coastal Flood Risk Management. <i>Risk Analysis</i> , 2020, 40, 153-168.	1.5	42
8	The role of internal climate variability in projecting Antarctica's contribution to future sea-level rise. <i>Climate Dynamics</i> , 2020, 55, 1875-1892.	1.7	13
9	Projecting Flood-Inducing Precipitation with a Bayesian Analogue Model. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2020, 25, 229-249.	0.7	4
10	The response of maize, sorghum, and soybean yield to growing-phase climate revealed with machine learning. <i>Environmental Research Letters</i> , 2020, 15, 094013.	2.2	48
11	The role of non-CO ₂ mitigation options within the dairy industry for pursuing climate change targets. <i>Environmental Research Letters</i> , 2019, 14, 084039.	2.2	4
12	Optimization of multiple storm surge risk mitigation strategies for an island City On a Wedge. <i>Environmental Modelling and Software</i> , 2019, 119, 341-353.	1.9	9
13	Underestimating Internal Variability Leads to Narrow Estimates of Climate System Properties. <i>Geophysical Research Letters</i> , 2019, 46, 10000-10007.	1.5	9
14	The Linear Sensitivity of the North Atlantic Oscillation and Eddy-Driven Jet to SSTs. <i>Journal of Climate</i> , 2019, 32, 6491-6511.	1.2	18
15	Inferred Net Aerosol Forcing Based on Historical Climate Changes: a Review. <i>Current Climate Change Reports</i> , 2018, 4, 11-22.	2.8	8
16	Analysis of climate signals in the crop yield record of sub-Saharan Africa. <i>Global Change Biology</i> , 2018, 24, 143-157.	4.2	80
17	Baseline evaluation of the impact of updates to the MIT Earth System Model on its model parameter estimates. <i>Geoscientific Model Development</i> , 2018, 11, 3313-3325.	1.3	5
18	Description and Evaluation of the MIT Earth System Model (MESM). <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1759-1789.	1.3	25

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19	Estimates of climate system properties incorporating recent climate change. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2018, 4, 19-36.	0.6	5
20	The effects of time-varying observation errors on semi-empirical sea-level projections. <i>Climatic Change</i> , 2017, 140, 349-360.	1.7	7
21	Assessing the contribution of internal climate variability to anthropogenic changes in ice sheet volume. <i>Geophysical Research Letters</i> , 2017, 44, 6261-6268.	1.5	12
22	Understanding the detectability of potential changes to the 100-year peak storm surge. <i>Climatic Change</i> , 2017, 145, 221-235.	1.7	31
23	Assessing the Impact of Retreat Mechanisms in a Simple Antarctic Ice Sheet Model Using Bayesian Calibration. <i>PLoS ONE</i> , 2017, 12, e0170052.	1.1	29
24	Uncertainty Quantification in Climate Modeling and Projection. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 821-824.	1.7	49
25	Industrial-era global ocean heat uptake doubles in recent decades. <i>Nature Climate Change</i> , 2016, 6, 394-398.	8.1	127
26	Effects of initial conditions uncertainty on regional climate variability: An analysis using a low-resolution CESM ensemble. <i>Geophysical Research Letters</i> , 2015, 42, 5468-5476.	1.5	42
27	Estimating the regional climate responses over river basins to changes in tropical sea surface temperature patterns. <i>Climate Dynamics</i> , 2015, 45, 1965-1982.	1.7	3
28	Estimating the Sensitivity of the Atmospheric Teleconnection Patterns to SST Anomalies Using a Linear Statistical Method. <i>Journal of Climate</i> , 2014, 27, 9065-9081.	1.2	8
29	Estimating the sensitivity of regional dust sources to sea surface temperature patterns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,160.	1.2	8
30	Evaluation of Climate Models. , 2014, , 741-866.		458
31	Long-Term Climate Change Commitment and Reversibility: An EMIC Intercomparison. <i>Journal of Climate</i> , 2013, 26, 5782-5809.	1.2	208
32	An integrated assessment modeling framework for uncertainty studies in global and regional climate change: the MIT IGSM-CAM (version 1.0). <i>Geoscientific Model Development</i> , 2013, 6, 2063-2085.	1.3	46
33	Quantifying the Likelihood of Regional Climate Change: A Hybridized Approach. <i>Journal of Climate</i> , 2013, 26, 3394-3414.	1.2	29
34	Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. <i>Climate of the Past</i> , 2013, 9, 1111-1140.	1.3	157
35	Broad range of 2050 warming from an observationally constrained large climate model ensemble. <i>Nature Geoscience</i> , 2012, 5, 256-260.	5.4	109
36	Comparing two methods to estimate the sensitivity of regional climate simulations to tropical SST anomalies. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10

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37	Large-Scale Diagnostics of Tropical Cyclogenesis Potential Using Environment Variability Metrics and Logistic Regression Models. <i>Journal of Climate</i> , 2012, 25, 6092-6107.	1.2	9
38	Analysis of climate policy targets under uncertainty. <i>Climatic Change</i> , 2012, 112, 569-583.	1.7	72
39	Sensitivity of distributions of climate system properties to the surface temperature dataset. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	23
40	Sensitivity of climate change projections to uncertainties in the estimates of observed changes in deep-ocean heat content. <i>Climate Dynamics</i> , 2010, 34, 735-745.	1.7	13
41	Statistical Calibration of Climate System Properties. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2009, 58, 485-503.	0.5	32
42	Probabilistic Forecast for Twenty-First-Century Climate Based on Uncertainties in Emissions (Without) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	192
43	Hot questions of temperature bias. <i>Nature</i> , 2008, 453, 601-602.	13.7	5
44	Inferring climate system properties using a computer model. <i>Bayesian Analysis</i> , 2008, 3, .	1.6	49
45	Parameter estimation for computationally intensive nonlinear regression with an application to climate modeling. <i>Annals of Applied Statistics</i> , 2008, 2, .	0.5	33
46	Paleoaltimetry: A Review of Thermodynamic Methods. <i>Reviews in Mineralogy and Geochemistry</i> , 2007, 66, 173-193.	2.2	10
47	Ensemble climate predictions using climate models and observational constraints. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2029-2052.	1.6	55
48	7. Paleoaltimetry: A Review of Thermodynamic Methods. , 2007, , 173-194.		1
49	Estimated PDFs of climate system properties including natural and anthropogenic forcings. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	118
50	Stabilization and global climate policy. <i>Global and Planetary Change</i> , 2005, 47, 266-272.	1.6	15
51	Uncertainty Analysis of Climate Change and Policy Response. <i>Climatic Change</i> , 2003, 61, 295-320.	1.7	186
52	Comparing Oceanic Heat Uptake in AOGCM Transient Climate Change Experiments. <i>Journal of Climate</i> , 2003, 16, 1573-1582.	1.2	44
53	Quantifying Uncertainties in Climate System Properties with the Use of Recent Climate Observations. <i>Science</i> , 2002, 295, 113-117.	6.0	388
54	Constraining climate model properties using optimal fingerprint detection methods. <i>Climate Dynamics</i> , 2001, 18, 277-295.	1.7	31

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55	CLIMATE CHANGE: Uncertainty and Climate Change Assessments. <i>Science</i> , 2001, 293, 430a-433.	6.0	141
56	Constraining uncertainties in climate models using climate change detection techniques. <i>Geophysical Research Letters</i> , 2000, 27, 569-572.	1.5	44
57	Paleoaltimetry incorporating atmospheric physics and botanical estimates of paleoclimate. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 497-511.	1.6	73
58	Paleobotanical evidence of Eocene and Oligocene paleoaltitudes in midlatitude western North America. <i>Bulletin of the Geological Society of America</i> , 1998, 110, 664-678.	1.6	218
59	Paleobotanical Evidence for High Altitudes in Nevada During the Miocene. <i>Science</i> , 1997, 276, 1672-1675.	6.0	167
60	Palaeoaltimetry from energy conservation principles. <i>Nature</i> , 1995, 374, 347-350.	13.7	70
61	Double-layer-relevant laboratory results. <i>IEEE Transactions on Plasma Science</i> , 1992, 20, 601-606.	0.6	11