Chris E Forest

List of Publications by Year
in descending order

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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	Evaluation of Climate Models. , 2014, , 741-866.		458
2	Quantifying Uncertainties in Climate System Properties with the Use of Recent Climate Observations. Science, 2002, 295, 113-117.	6.0	388
3	Paleobotanical evidence of Eocene and Oligocene paleoaltitudes in midlatitude western North America. Bulletin of the Geological Society of America, 1998, 110, 664-678.	1.6	218
4	Long-Term Climate Change Commitment and Reversibility: An EMIC Intercomparison. Journal of Climate, 2013, 26, 5782-5809.	1.2	208
5	Probabilistic Forecast for Twenty-First-Century Climate Based on Uncertainties in Emissions (Without) Tj ETQq1 1 0.784314 rgBT /Over	1.2	192
6	Uncertainty Analysis of Climate Change and Policy Response. Climatic Change, 2003, 61, 295-320.	1.7	186
7	Paleobotanical Evidence for High Altitudes in Nevada During the Miocene. Science, 1997, 276, 1672-1675.	6.0	167
8	Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. Climate of the Past, 2013, 9, 1111-1140.	1.3	157
9	CLIMATE CHANGE: Uncertainty and Climate Change Assessments. Science, 2001, 293, 430a-433.	6.0	141
10	Industrial-era global ocean heat uptake doubles in recent decades. Nature Climate Change, 2016, 6, 394-398.	8.1	127
11	Estimated PDFs of climate system properties including natural and anthropogenic forcings. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	118
12	Broad range of 2050 warming from an observationally constrained large climate model ensemble. Nature Geoscience, 2012, 5, 256-260.	5.4	109
13	Analysis of climate signals in the crop yield record of subâ€Saharan Africa. Global Change Biology, 2018, 24, 143-157.	4.2	80
14	Paleoaltimetry incorporating atmospheric physics and botanical estimates of paleoclimate. Bulletin of the Geological Society of America, 1999, 111, 497-511.	1.6	73
15	Analysis of climate policy targets under uncertainty. Climatic Change, 2012, 112, 569-583.	1.7	72
16	Palaeoaltimetry from energy conservation principles. Nature, 1995, 374, 347-350.	13.7	70
17	Ensemble climate predictions using climate models and observational constraints. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2029-2052.	1.6	55
18	Constraining climate model parameters from observed 20th century changes. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 60, 911.	0.8	51

#	Article	IF	Citations
19	Inferring climate system properties using a computer model. Bayesian Analysis, 2008, 3, .	1.6	49
20	Uncertainty Quantification in Climate Modeling and Projection. Bulletin of the American Meteorological Society, 2016, 97, 821-824.	1.7	49
21	The response of maize, sorghum, and soybean yield to growing-phase climate revealed with machine learning. Environmental Research Letters, 2020, 15, 094013.	2.2	48
22	An integrated assessment modeling framework for uncertainty studies in global and regional climate change: the MIT IGSM-CAM (version 1.0). Geoscientific Model Development, 2013, 6, 2063-2085.	1.3	46
23	Constraining uncertainties in climate models using climate change detection techniques. Geophysical Research Letters, 2000, 27, 569-572.	1.5	44
24	Comparing Oceanic Heat Uptake in AOGCM Transient Climate Change Experiments. Journal of Climate, 2003, 16, 1573-1582.	1.2	44
25	Effects of initial conditions uncertainty on regional climate variability: An analysis using a lowâ€resolution CESM ensemble. Geophysical Research Letters, 2015, 42, 5468-5476.	1.5	42
26	Deep Uncertainties in Seaâ€Level Rise and Storm Surge Projections: Implications for Coastal Flood Risk Management. Risk Analysis, 2020, 40, 153-168.	1.5	42
27	Distributed and localized cooling with thermoelectrics. Joule, 2021, 5, 748-751.	11.7	34
28	Parameter estimation for computationally intensive nonlinear regression with an application to climate modeling. Annals of Applied Statistics, 2008, 2, .	0.5	33
29	Statistical Calibration of Climate System Properties. Journal of the Royal Statistical Society Series C: Applied Statistics, 2009, 58, 485-503.	0.5	32
30	Constraining climate model properties using optimal fingerprint detection methods. Climate Dynamics, 2001, 18, 277-295.	1.7	31
31	Understanding the detectability of potential changes to the 100-year peak storm surge. Climatic Change, 2017, 145, 221-235.	1.7	31
32	Quantifying the Likelihood of Regional Climate Change: A Hybridized Approach. Journal of Climate, 2013, 26, 3394-3414.	1.2	29
33	Assessing the Impact of Retreat Mechanisms in a Simple Antarctic Ice Sheet Model Using Bayesian Calibration. PLoS ONE, 2017, 12, e0170052.	1.1	29
34	Description and Evaluation of the MIT Earth System Model (MESM). Journal of Advances in Modeling Earth Systems, 2018, 10, 1759-1789.	1.3	25
35	Sensitivity of distributions of climate system properties to the surface temperature dataset. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	23
36	The Linear Sensitivity of the North Atlantic Oscillation and Eddy-Driven Jet to SSTs. Journal of Climate, 2019, 32, 6491-6511.	1.2	18

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37	Stabilization and global climate policy. Global and Planetary Change, 2005, 47, 266-272.	1.6	15
38	Sensitivity of climate change projections to uncertainties in the estimates of observed changes in deep-ocean heat content. Climate Dynamics, 2010, 34, 735-745.	1.7	13
39	The role of internal climate variability in projecting Antarcticaâ€™s contribution to future sea-level rise. Climate Dynamics, 2020, 55, 1875-1892.	1.7	13
40	Assessing the contribution of internal climate variability to anthropogenic changes in ice sheet volume. Geophysical Research Letters, 2017, 44, 6261-6268.	1.5	12
41	Double-layer-relevant laboratory results. IEEE Transactions on Plasma Science, 1992, 20, 601-606.	0.6	11
42	Paleoaltimetry: A Review of Thermodynamic Methods. Reviews in Mineralogy and Geochemistry, 2007, 66, 173-193.	2.2	10
43	Comparing two methods to estimate the sensitivity of regional climate simulations to tropical SST anomalies. Journal of Geophysical Research, 2012, 117, .	3.3	10
44	Large-Scale Diagnostics of Tropical Cyclogenesis Potential Using Environment Variability Metrics and Logistic Regression Models. Journal of Climate, 2012, 25, 6092-6107.	1.2	9
45	Optimization of multiple storm surge risk mitigation strategies for an island City On a Wedge. Environmental Modelling and Software, 2019, 119, 341-353.	1.9	9
46	Underestimating Internal Variability Leads to Narrow Estimates of Climate System Properties. Geophysical Research Letters, 2019, 46, 10000-10007.	1.5	9
47	Estimating the Sensitivity of the Atmospheric Teleconnection Patterns to SST Anomalies Using a Linear Statistical Method. Journal of Climate, 2014, 27, 9065-9081.	1.2	8
48	Estimating the sensitivity of regional dust sources to sea surface temperature patterns. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,160.	1.2	8
49	Inferred Net Aerosol Forcing Based on Historical Climate Changes: a Review. Current Climate Change Reports, 2018, 4, 11-22.	2.8	8
50	The effects of time-varying observation errors on semi-empirical sea-level projections. Climatic Change, 2017, 140, 349-360.	1.7	7
51	Assessing and reducing the environmental impact of dairy production systems in the northern US in a changing climate. Agricultural Systems, 2021, 192, 103170.	3.2	6
52	Hot questions of temperature bias. Nature, 2008, 453, 601-602.	13.7	5
53	Baseline evaluation of the impact of updates to the MIT Earth System Model on its model parameter estimates. Geoscientific Model Development, 2018, 11, 3313-3325.	1.3	5
54	Estimates of climate system properties incorporating recent climate change. Advances in Statistical Climatology, Meteorology and Oceanography, 2018, 4, 19-36.	0.6	5

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55	Tradeâ€offs and synergies in managing coastal flood risk: A case study for New York City. Journal of Flood Risk Management, 2022, 15, e12771.	1.6	5
56	The role of non-CO 2 mitigation options within the dairy industry for pursuing climate change targets. Environmental Research Letters, 2019, 14, 084039.	2.2	4
57	Projecting Flood-Inducing Precipitation with a Bayesian Analogue Model. Journal of Agricultural, Biological, and Environmental Statistics, 2020, 25, 229-249.	0.7	4
58	Estimating the regional climate responses over river basins to changes in tropical sea surface temperature patterns. Climate Dynamics, 2015, 45, 1965-1982.	1.7	3
59	Causes and impacts of sea ice variability in the sea of Okhotsk using CESM-LE. Climate Dynamics, 2021, 56, 2007-2021.	1.7	2
60	Attention to values helps shape convergence research. Climatic Change, 2022, 170, 1.	1.7	2
61	7. Paleoaltimetry: A Review of Thermodynamic Methods. , 2007, , 173-194.		1