

J P Krasting

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

4,887
citations

331670

21
h-index

434195

31
g-index

34
all docs

34
docs citations

34
times ranked

7013
citing authors

#	ARTICLE	IF	CITATIONS
1	GFDL's ES2 Global Coupled Climate Carbon Earth System Models. Part I: Physical Formulation and Baseline Simulation Characteristics. <i>Journal of Climate</i> , 2012, 25, 6646-6665.	3.2	972
2	GFDL's ES2 Global Coupled Climate Carbon Earth System Models. Part II: Carbon System Formulation and Baseline Simulation Characteristics*. <i>Journal of Climate</i> , 2013, 26, 2247-2267.	3.2	540
3	Dominance of the Southern Ocean in Anthropogenic Carbon and Heat Uptake in CMIP5 Models. <i>Journal of Climate</i> , 2015, 28, 862-886.	3.2	432
4	Taking climate model evaluation to the next level. <i>Nature Climate Change</i> , 2019, 9, 102-110.	18.8	407
5	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002015.	3.8	277
6	Carbon concentration and carbon climate feedbacks in CMIP6 models and their comparison to CMIP5 models. <i>Biogeosciences</i> , 2020, 17, 4173-4222.	3.3	255
7	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3691-3727.	3.8	242
8	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2016, 9, 3231-3296.	3.6	223
9	The impact of anthropogenic land use and land cover change on regional climate extremes. <i>Nature Communications</i> , 2017, 8, 989.	12.8	207
10	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3167-3211.	3.8	195
11	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 735-769.	3.8	185
12	Future Changes in Northern Hemisphere Snowfall. <i>Journal of Climate</i> , 2013, 26, 7813-7828.	3.2	173
13	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 691-734.	3.8	155
14	ESMValTool (v1.0) a community diagnostic and performance metrics tool for routine evaluation of Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2016, 9, 1747-1802.	3.6	127
15	Ocean response to volcanic eruptions in coupled Model Intercomparison Project 5 simulations. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5622-5637.	2.6	90
16	Historical warming reduced due to enhanced land carbon uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16730-16735.	7.1	88
17	Ocean Biogeochemistry in GFDL's Earth System Model 4.1 and Its Response to Increasing Atmospheric CO ₂ . <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002043.	3.8	70
18	Trajectory sensitivity of the transient climate response to cumulative carbon emissions. <i>Geophysical Research Letters</i> , 2014, 41, 2520-2527.	4.0	41

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19	Rising Temperatures Increase Importance of Oceanic Evaporation as a Source for Continental Precipitation. <i>Journal of Climate</i> , 2019, 32, 7713-7726.	3.2	37
20	Sensitivity of Twenty-First-Century Global-Mean Steric Sea Level Rise to Ocean Model Formulation. <i>Journal of Climate</i> , 2013, 26, 2947-2956.	3.2	25
21	Enhanced Atlantic sea-level rise relative to the Pacific under high carbon emission rates. <i>Nature Geoscience</i> , 2016, 9, 210-214.	12.9	24
22	Simple Global Ocean Biogeochemistry With Light, Iron, Nutrients and Gas Version 2 (BLINGv2): Model Description and Simulation Characteristics in GFDL's CM4.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002008.	3.8	24
23	Climate Sensitivity of GFDL's CM4.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001838.	3.8	17
24	Comparison of Equilibrium Climate Sensitivity Estimates From Slab Ocean, 150-year, and Longer Simulations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088852.	4.0	16
25	Importance of the Antarctic Slope Current in the Southern Ocean Response to Ice Sheet Melt and Wind Stress Change. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	14
26	Impact of Mountains on Tropical Circulation in Two Earth System Models. <i>Journal of Climate</i> , 2017, 30, 4149-4163.	3.2	13
27	Role of Ocean Model Formulation in Climate Response Uncertainty. <i>Journal of Climate</i> , 2018, 31, 9313-9333.	3.2	9
28	The Mechanistic Role of the Central American Seaway in a GFDL Earth System Model. Part 1: Impacts on Global Ocean Mean State and Circulation. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 840-859.	2.9	7
29	Oceanic and Atmospheric Drivers of Post-El Niño Chlorophyll Rebound in the Equatorial Pacific. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
30	The Role of Continental Topography in the Present-Day Ocean's Mean Climate. <i>Journal of Climate</i> , 2022, 35, 1327-1346.	3.2	2
31	Regional sensitivity patterns of Arctic Ocean acidification revealed with machine learning. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	2