

Jochem Marotzke

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

14,713
citations

20797

60
h-index

32815

100
g-index

114
all docs

114
docs citations

114
times ranked

11733
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconciling Conflicting Accounts of Local Radiative Feedbacks in Climate Models. <i>Journal of Climate</i> , 2022, 35, 3131-3146.	1.2	2
2	Earlier emergence of a temperature response to mitigation by filtering annual variability. <i>Nature Communications</i> , 2022, 13, 1578.	5.8	4
3	How close are we to 1.5 deg<sc>C</sc> or 2 deg<sc>C</sc> of global warming?. <i>Weather</i> , 2022, 77, 147-148.	0.6	2
4	The ICON Earth System Model Version 1.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	16
5	Air–Sea Interactions and Water Mass Transformation During a Katabatic Storm in the Irminger Sea. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	7
6	Climate and ocean circulation in the aftermath of a Marinoan snowball Earth. <i>Climate of the Past</i> , 2022, 18, 759-774.	1.3	7
7	Nonlocal and local wind forcing dependence of the Atlantic meridional overturning circulation and its depth scale. <i>Ocean Science</i> , 2022, 18, 979-996.	1.3	0
8	The regional MiKlip decadal prediction system for Europe: Hindcast skill for extremes and user-oriented variables. <i>International Journal of Climatology</i> , 2021, 41, E1944.	1.5	5
9	More accurate quantification of model-to-model agreement in externally forced climatic responses over the coming century. <i>Nature Communications</i> , 2021, 12, 788.	5.8	32
10	Optimal temperature overshoot profile found by limiting global sea level rise as a lower-cost climate target. <i>Science Advances</i> , 2020, 6, eaaw9490.	4.7	12
11	Coupling of the Subpolar Gyre and the Overturning Circulation During Abrupt Glacial Climate Transitions. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090361.	1.5	22
12	Broad Consistency Between Observed and Simulated Trends in Sea Surface Temperature Patterns. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086773.	1.5	34
13	Insights from Earth system model initial-condition large ensembles and future prospects. <i>Nature Climate Change</i> , 2020, 10, 277-286.	8.1	436
14	Dynamical and thermodynamical drivers of variability in European summer heat extremes. <i>Climate Dynamics</i> , 2020, 54, 4351-4366.	1.7	49
15	Hotspots of extreme heat under global warming. <i>Climate Dynamics</i> , 2020, 55, 429-447.	1.7	39
16	The economic interaction between climate change mitigation, climate migration and poverty. <i>Nature Climate Change</i> , 2020, 10, 518-525.	8.1	44
17	Quantifying the role of internal variability in the temperature we expect to observe in the coming decades. <i>Environmental Research Letters</i> , 2020, 15, 054014.	2.2	43
18	Inherent uncertainty disguises attribution of reduced atmospheric CO ₂ growth to CO ₂ emission reductions for up to a decade. <i>Environmental Research Letters</i> , 2020, 15, 114058.	2.2	10

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19	Partitioning climate projection uncertainty with multiple large ensembles and CMIP5/6. <i>Earth System Dynamics</i> , 2020, 11, 491-508.	2.7	255
20	The Max Planck Institute Grand Ensemble: Enabling the Exploration of Climate System Variability. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2050-2069.	1.3	288
21	Developments in the MPI-ESM Earth System Model version 1.2 (MPI-ESM1.2) and Its Response to Increasing CO ₂ . <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 998-1038.	1.3	582
22	Realistic Quasi-Biennial Oscillation Variability in Historical and Decadal Hindcast Simulations Using CMIP6 Forcing. <i>Geophysical Research Letters</i> , 2019, 46, 14118-14125.	1.5	22
23	Quantifying the irreducible uncertainty in near-term climate projections. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2019, 10, e563.	3.6	33
24	ENSO Change in Climate Projections: Forced Response or Internal Variability?. <i>Geophysical Research Letters</i> , 2018, 45, 11,390.	1.5	82
25	Internal variability in European summer temperatures at 1.5°C and 2°C of global warming. <i>Environmental Research Letters</i> , 2018, 13, 064026.	2.2	40
26	Two AMOC States in Response to Decreasing Greenhouse Gas Concentrations in the Coupled Climate Model MPI-ESM. <i>Journal of Climate</i> , 2018, 31, 7969-7984.	1.2	36
27	A Higher-resolution Version of the Max Planck Institute Earth System Model (MPI-ESM1.2-hr). <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1383-1413.	1.3	272
28	Climate research must sharpen its view. <i>Nature Climate Change</i> , 2017, 7, 89-91.	8.1	80
29	The subtle origins of surface-warming hiatuses. <i>Nature Climate Change</i> , 2017, 7, 336-339.	8.1	57
30	Internal variability in simulated and observed tropical tropospheric temperature trends. <i>Geophysical Research Letters</i> , 2017, 44, 5709-5719.	1.5	28
31	The level of climate-change mitigation depends on how humans assess the risk arising from missing the 2°C target. <i>Palgrave Communications</i> , 2017, 3, .	4.7	6
32	The effect of greenhouse gas concentrations and ice sheets on the glacial AMOC in a coupled climate model. <i>Climate of the Past</i> , 2016, 12, 1829-1846.	1.3	38
33	Humans choose representatives who enforce cooperation in social dilemmas through extortion. <i>Nature Communications</i> , 2016, 7, 10915.	5.8	44
34	MiKlip: A National Research Project on Decadal Climate Prediction. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2379-2394.	1.7	78
35	Transition to a Moist Greenhouse with CO ₂ and solar forcing. <i>Nature Communications</i> , 2016, 7, 10627.	5.8	71
36	Eurasian winter cooling in the warming hiatus of 1998-2012. <i>Geophysical Research Letters</i> , 2015, 42, 8131-8139.	1.5	117

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37	Forcing, feedback and internal variability in global temperature trends. <i>Nature</i> , 2015, 517, 565-570.	13.7	155
38	Klimamodelle und Globale Erwärmung. <i>Physik in Unserer Zeit</i> , 2014, 45, 118-125.	0.0	2
39	Deep-ocean heat uptake and equilibrium climate response. <i>Climate Dynamics</i> , 2013, 40, 1071-1086.	1.7	135
40	Predictability of large interannual Arctic sea-ice anomalies. <i>Climate Dynamics</i> , 2013, 41, 2511-2526.	1.7	43
41	Intra- and intergenerational discounting in the climate game. <i>Nature Climate Change</i> , 2013, 3, 1025-1028.	8.1	116
42	Energy budget constraints on climate response. <i>Nature Geoscience</i> , 2013, 6, 415-416.	5.4	270
43	Characteristics of the ocean simulations in the Max Planck Institute Ocean Model (MPIOM) the ocean component of the MPI-Earth system model. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 422-446.	1.3	574
44	Climate and carbon cycle changes from 1850 to 2100 in MPI-ESM simulations for the Coupled Model Intercomparison Project phase 5. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 572-597.	1.3	1,280
45	Arctic sea-ice evolution as modeled by Max Planck Institute for Meteorology's Earth system model. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 173-194.	1.3	110
46	Assimilation of sea-ice concentration in a global climate model – physical and statistical aspects. <i>Ocean Science</i> , 2013, 9, 19-36.	1.3	57
47	Improved forecast skill in the tropics in the new MiKlip decadal climate predictions. <i>Geophysical Research Letters</i> , 2013, 40, 5798-5802.	1.5	77
48	Two Tales of Initializing Decadal Climate Prediction Experiments with the ECHAM5/MPI-OM Model. <i>Journal of Climate</i> , 2012, 25, 8502-8523.	1.2	139
49	An Estimate of the Lorenz Energy Cycle for the World Ocean Based on the STORM/NCEP Simulation. <i>Journal of Physical Oceanography</i> , 2012, 42, 2185-2205.	0.7	219
50	A grip on ice-age ocean circulation. <i>Nature</i> , 2012, 485, 180-181.	13.7	8
51	Past, Present, and Future Changes in the Atlantic Meridional Overturning Circulation. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1663-1676.	1.7	153
52	Observations reveal external driver for Arctic sea-ice retreat. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	137
53	A model-data comparison for a multi-model ensemble of early Eocene atmosphere-ocean simulations: EoMIP. <i>Climate of the Past</i> , 2012, 8, 1717-1736.	1.3	196
54	Forecast skill of multi-year seasonal means in the decadal prediction system of the Max Planck Institute for Meteorology. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	67

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55	Multiyear Prediction of Monthly Mean Atlantic Meridional Overturning Circulation at 26.5°N. <i>Science</i> , 2012, 335, 76-79.	6.0	79
56	Continuous, Array-Based Estimates of Atlantic Ocean Heat Transport at 26.5°N. <i>Journal of Climate</i> , 2011, 24, 2429-2449.	1.2	352
57	Monitoring the Atlantic meridional overturning circulation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1744-1753.	0.6	135
58	Initiation of a Marinoan Snowball Earth in a state-of-the-art atmosphere-ocean general circulation model. <i>Climate of the Past</i> , 2011, 7, 249-263.	1.3	90
59	Predicting goal error evolution from near-initial-information: A learning algorithm. <i>Journal of Computational Physics</i> , 2011, 230, 7284-7299.	1.9	6
60	Cooperative interaction of rich and poor can be catalyzed by intermediate climate targets. <i>Climatic Change</i> , 2011, 109, 807-814.	1.7	80
61	The transition from the present-day climate to a modern Snowball Earth. <i>Climate Dynamics</i> , 2010, 35, 887-905.	1.7	68
62	The contribution of eastern-boundary density variations to the Atlantic meridional overturning circulation at 26.5° N. <i>Ocean Science</i> , 2010, 6, 475-490.	1.3	69
63	Climate and carbon-cycle variability over the last millennium. <i>Climate of the Past</i> , 2010, 6, 723-737.	1.3	284
64	Present-Day Arctic Sea Ice Variability in the Coupled ECHAM5/MPI-OM Model. <i>Journal of Climate</i> , 2010, 23, 2520-2543.	1.2	20
65	An Earth-System Prediction Initiative for the Twenty-First Century. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1377-1388.	1.7	88
66	Toward a New Generation of World Climate Research and Computing Facilities. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1407-1412.	1.7	64
67	Seasonal Variability of the Atlantic Meridional Overturning Circulation at 26.5°N. <i>Journal of Climate</i> , 2010, 23, 5678-5698.	1.2	270
68	Warm Paleocene/Eocene climate as simulated in ECHAM5/MPI-OM. <i>Climate of the Past</i> , 2009, 5, 785-802.	1.3	95
69	Initializing Decadal Climate Predictions with the GECCO Oceanic Synthesis: Effects on the North Atlantic. <i>Journal of Climate</i> , 2009, 22, 3926-3938.	1.2	248
70	Strategies: Revolution in Climate Prediction is Both Necessary and Possible: A Declaration at the World Modelling Summit for Climate Prediction. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 175-178.	1.7	116
71	Detecting potential changes in the meridional overturning circulation at 26°N in the Atlantic. <i>Climatic Change</i> , 2008, 91, 11-27.	1.7	40
72	The collective-risk social dilemma and the prevention of simulated dangerous climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2291-2294.	3.3	429

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73	Regional Dynamic and Steric Sea Level Change in Response to the IPCC-A1B Scenario. <i>Journal of Physical Oceanography</i> , 2007, 37, 296-312.	0.7	170
74	Reconstructing the Meridional Overturning Circulation from Boundary Densities and the Zonal Wind Stress. <i>Journal of Physical Oceanography</i> , 2007, 37, 743-763.	0.7	74
75	Wind-Generated Power Input to the Deep Ocean: An Estimate Using a 1/10° General Circulation Model. <i>Journal of Physical Oceanography</i> , 2007, 37, 657-672.	0.7	59
76	Temporal Variability of the Atlantic Meridional Overturning Circulation at 26.5°N. <i>Science</i> , 2007, 317, 935-938.	6.0	718
77	Observed Flow Compensation Associated with the MOC at 26.5°N in the Atlantic. <i>Science</i> , 2007, 317, 938-941.	6.0	205
78	Present-day and ice-covered equilibrium states in a comprehensive climate model. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	32
79	Ocean Circulation and Tropical Variability in the Coupled Model ECHAM5/MPI-OM. <i>Journal of Climate</i> , 2006, 19, 3952-3972.	1.2	788
80	Stabilizing the Earth's climate is not a losing game: Supporting evidence from public goods experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3994-3998.	3.3	304
81	Monitoring the meridional overturning circulation in the North Atlantic: A model-based array design study. <i>Journal of Marine Research</i> , 2004, 62, 283-312.	0.3	79
82	Abrupt Climate Change. <i>Science</i> , 2003, 299, 2005-2010.	6.0	1,017
83	The Location of Diapycnal Mixing and the Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2002, 32, 3578-3595.	0.7	69
84	The Oceanic Eddy Heat Transport*. <i>Journal of Physical Oceanography</i> , 2002, 32, 3328-3345.	0.7	210
85	Impact of geothermal heating on the global ocean circulation. <i>Geophysical Research Letters</i> , 2001, 28, 1735-1738.	1.5	83
86	The dynamics of ocean heat transport variability. <i>Reviews of Geophysics</i> , 2001, 39, 385-411.	9.0	171
87	The Dynamics of Equatorially Asymmetric Thermohaline Circulations. <i>Journal of Physical Oceanography</i> , 2000, 30, 955-970.	0.7	47
88	Abrupt climate change and thermohaline circulation: Mechanisms and predictability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 1347-1350.	3.3	162
89	Meridional Heat Transport by the Subtropical Cell. <i>Journal of Physical Oceanography</i> , 2000, 30, 696-705.	0.7	68
90	The importance of open-boundary estimation for an Indian Ocean GCM-data synthesis. <i>Journal of Marine Research</i> , 1999, 57, 305-334.	0.3	44

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91	Behavior of Double-Hemisphere Thermohaline Flows in a Single Basin. Journal of Physical Oceanography, 1999, 29, 382-399.	0.7	54
92	Interhemispheric Thermohaline Circulation in a Coupled Box Model. Journal of Physical Oceanography, 1999, 29, 351-365.	0.7	64
93	Convective Mixing and the Thermohaline Circulation. Journal of Physical Oceanography, 1999, 29, 2962-2970.	0.7	95
94	Seasonal Cycles of Meridional Overturning and Heat Transport of the Indian Ocean. Journal of Physical Oceanography, 1998, 28, 923-943.	0.7	116
95	Boundary Mixing and the Dynamics of Three-Dimensional Thermohaline Circulations. Journal of Physical Oceanography, 1997, 27, 1713-1728.	0.7	146
96	Atmospheric Transports, the Thermohaline Circulation, and Flux Adjustments in a Simple Coupled Model. Journal of Physical Oceanography, 1995, 25, 1350-1364.	0.7	121
97	Destabilization of the Thermohaline Circulation by Atmospheric Eddy Transports. Journal of Climate, 1994, 7, 1870-1882.	1.2	115
98	Stability and Variability of the Thermohaline Circulation. Journal of Physical Oceanography, 1993, 23, 39-60.	0.7	197
99	Multiple Equilibria of the Global Thermohaline Circulation. Journal of Physical Oceanography, 1991, 21, 1372-1385.	0.7	224
100	Influence of Convective Adjustment on the Stability of the Thermohaline Circulation. Journal of Physical Oceanography, 1991, 21, 903-907.	0.7	78