Johann H Jungclaus

List of Publications by Year
in descending order

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59 papers	7,139 citations	136950 32 h-index	149698 56 g-index
64 all docs	64 docs citations	64 times ranked	7704 citing authors

#	Article	IF	Citations
1	Climate and carbon cycle changes from 1850 to 2100 in MPIâ€ESM simulations for the Coupled Model Intercomparison Project phase 5. Journal of Advances in Modeling Earth Systems, 2013, 5, 572-597.	3.8	1,280
2	Developments in the MPIâ€M Earth System Model version 1.2 (MPIâ€ESM1.2) and Its Response to Increasing CO₂. Journal of Advances in Modeling Earth Systems, 2019, 11, 998-1038.	3.8	582
3	Characteristics of the ocean simulations in the Max Planck Institute Ocean Model (MPIOM) the ocean component of the MPIâ€Earth system model. Journal of Advances in Modeling Earth Systems, 2013, 5, 422-446.	3.8	574
4	A model intercomparison of changes in the Atlantic thermohaline circulation in response to increasing atmospheric CO2concentration. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	472
5	Climate forcing reconstructions for use in PMIP simulations of the last millennium (v1.0). Geoscientific Model Development, 2011, 4, 33-45.	3.6	349
6	Tuning the climate of a global model. Journal of Advances in Modeling Earth Systems, 2012, 4, .	3.8	334
7	A Higherâ€resolution Version of the Max Planck Institute Earth System Model (MPIâ€ESM1.2â€HR). Journal of Advances in Modeling Earth Systems, 2018, 10, 1383-1413.	3.8	272
8	European summer temperatures since Roman times. Environmental Research Letters, 2016, 11, 024001.	5.2	260
9	Initializing Decadal Climate Predictions with the GECCO Oceanic Synthesis: Effects on the North Atlantic. Journal of Climate, 2009, 22, 3926-3938.	3.2	248
10	Arcticâ€"North Atlantic Interactions and Multidecadal Variability of the Meridional Overturning Circulation. Journal of Climate, 2005, 18, 4013-4031.	3.2	230
11	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. Geoscientific Model Development, 2016, 9, 3231-3296.	3.6	223
12	Max Planck Institute Earth System Model (MPI-ESM1.2) for the High-Resolution Model Intercomparison Project (HighResMIP). Geoscientific Model Development, 2019, 12, 3241-3281.	3.6	201
13	Bi-decadal variability excited in the coupled oceanâ€"atmosphere system by strong tropical volcanic eruptions. Climate Dynamics, 2012, 39, 419-444.	3.8	174
14	The PMIP4 contribution to CMIP6 â€" Part 1: Overview and over-arching analysis plan. Geoscientific Model Development, 2018, 11, 1033-1057.	3.6	164
15	The PMIP4 contribution to CMIP6 â€" Part 3: The last millennium, scientific objective, and experimental design for the PMIP4 &lt;i&gt;past1000&lt;/i&gt; simulations. Geoscientific Model Development, 2017, 10, 4005-4033.	3.6	155
16	Two Tales of Initializing Decadal Climate Prediction Experiments with the ECHAM5/MPI-OM Model. Journal of Climate, 2012, 25, 8502-8523.	3.2	139
17	The Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP) contribution to CMIP6: investigation of sea-level and ocean climate change in response to CO&lt;sub&gt;2&lt;/sub&gt; forcing. Geoscientific Model Development, 2016, 9, 3993-4017.	3.6	133
18	Arctic seaâ€ice evolution as modeled by Max Planck Institute for Meteorology's Earth system model. Journal of Advances in Modeling Earth Systems, 2013, 5, 173-194.	3.8	110

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19	Multiple drivers of the North Atlantic warming hole. Nature Climate Change, 2020, 10, 667-671.	18.8	103
20	Warm Paleocene/Eocene climate as simulated in ECHAM5/MPI-OM. Climate of the Past, 2009, 5, 785-802.	3.4	95
21	Background conditions influence the decadal climate response to strong volcanic eruptions. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4090-4106.	3.3	86
22	Multidecadal-to-centennial SST variability in the MPI-ESM simulation ensemble for the last millennium. Climate Dynamics, 2013, 40, 1301-1318.	3.8	80
23	Enhanced 20th-century heat transfer to the Arctic simulated in the context of climate variations over the last millennium. Climate of the Past, 2014, 10, 2201-2213.	3.4	71
24	Forecast skill of multiâ€year seasonal means in the decadal prediction system of the Max Planck Institute for Meteorology. Geophysical Research Letters, 2012, 39, .	4.0	67
25	Northern Hemisphere Monsoon Response to Midâ€Holocene Orbital Forcing and Greenhouse Gasâ€Induced Global Warming. Geophysical Research Letters, 2019, 46, 1591-1601.	4.0	56
26	Ocean bottom pressure changes lead to a decreasing length-of-day in a warming climate. Geophysical Research Letters, 2007, 34, .	4.0	53
27	Variability in the Northern North Atlantic and Arctic Oceans Across the Last Two Millennia: A Review. Paleoceanography and Paleoclimatology, 2019, 34, 1399-1436.	2.9	53
28	A decadally delayed response of the tropical Pacific to Atlantic multidecadal variability. Geophysical Research Letters, 2016, 43, 784-792.	4.0	49
29	An abrupt weakening of the subpolar gyre as trigger of Little Ice Age-type episodes. Climate Dynamics, 2017, 48, 727-744.	3.8	48
30	Winter amplification of the European Little Ice Age cooling by the subpolar gyre. Scientific Reports, 2017, 7, 9981.	3.3	38
31	Interdecadal variability of the meridional overturning circulation as an ocean internal mode. Climate Dynamics, 2008, 31, 731-741.	3.8	37
32	Different flavors of the Atlantic Multidecadal Variability. Climate Dynamics, 2014, 42, 381-399.	3.8	35
33	High atmospheric horizontal resolution eliminates the windâ€driven coastal warm bias in the southeastern tropical Atlantic. Geophysical Research Letters, 2016, 43, 10,455.	4.0	34
34	Clarifying the Relative Role of Forcing Uncertainties and Initialâ€Condition Unknowns in Spreading the Climate Response to Volcanic Eruptions. Geophysical Research Letters, 2019, 46, 1602-1611.	4.0	32
35	What causes the spread of model projections of ocean dynamic sea-level change in response to greenhouse gas forcing?. Climate Dynamics, 2021, 56, 155-187.	3.8	29
36	The role of subpolar deep water formation and Nordic Seas overflows in simulated multidecadal variability of the Atlantic meridional overturning circulation. Ocean Science, 2014, 10, 227-241.	3.4	24

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37	High-resolution marine data and transient simulations support orbital forcing of ENSO amplitude since the mid-Holocene. Quaternary Science Reviews, 2021, 268, 107125.	3.0	20
38	Contrasting Southern Hemisphere Monsoon Response: MidHolocene Orbital Forcing versus Future Greenhouse Gasâ€“Induced Global Warming. Journal of Climate, 2020, 33, 9595-9613.	3.2	20
39	Internally generated decadal cold events in the northern North Atlantic and their possible implications for the demise of the Norse settlements in Greenland. Geophysical Research Letters, 2015, 42, 908-915.	4.0	19
40	Disentangling Internal and External Contributions to Atlantic Multidecadal Variability Over the Past Millennium. Geophysical Research Letters, 2021, 48, e2021GL095990.	4.0	17
41	The ICON Earth System Model Version 1.0. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	16
42	Modelling the Overflows Across the Greenlandâ€“Scotland Ridge. , 2008, , 527-549.		15
43	Linking Ocean Forcing and Atmospheric Interactions to Atlantic Multidecadal Variability in MPIâ€ESM1.2. Geophysical Research Letters, 2020, 47, e2020GL087259.	4.0	14
44	Surface Flux Drivers for the Slowdown of the Atlantic Meridional Overturning Circulation in a Highâ€Resolution Global Coupled Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 1349-1363.	3.8	11
45	Changes of Decadal SST Variations in the Subpolar North Atlantic under Strong CO2 Forcing as an Indicator for the Ocean Circulationâ€™s Contribution to Atlantic Multidecadal Variability. Journal of Climate, 2020, 33, 3213-3228.	3.2	11
46	Comparison of ocean vertical mixing schemes in the Max Planck Institute Earth System Model (MPI-ESM1.2). Geoscientific Model Development, 2021, 14, 2317-2349.	3.6	11
47	Increasing the Depth of a Land Surface Model. Part II: Temperature Sensitivity to Improved Subsurface Thermodynamics and Associated Permafrost Response. Journal of Hydrometeorology, 2021, 22, 3231-3254.	1.9	11
48	Using simulations of the last millennium to understand climate variability seen in palaeo-observations: similar variation of Icelandâ€“Scotland overflow strength and Atlantic Multidecadal Oscillation. Climate of the Past, 2015, 11, 203-216.	3.4	10
49	Increasing the Depth of a Land Surface Model. Part I: Impacts on the Subsurface Thermal Regime and Energy Storage. Journal of Hydrometeorology, 2021, 22, 3211-3230.	1.9	10
50	Poleward Shift of Northern Subtropics in Winter: Time of Emergence of Zonal Versus Regional Signals. Geophysical Research Letters, 2020, 47, e2020GL089325.	4.0	9
51	Multi-model ensemble analysis of Pacific and Atlantic SST variability in unperturbed climate simulations. Climate Dynamics, 2016, 47, 1073-1090.	3.8	8
52	Ocean Model Formulation Influences Transient Climate Response. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017633.	2.6	8
53	Identifying and Characterizing Subsurface Tropical Instability Waves in the Atlantic Ocean in Simulations and Observations. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017013.	2.6	7
54	Airâ€Sea Interactions and Water Mass Transformation During a Katabatic Storm in the Irminger Sea. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	7

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55	Response of Northern North Atlantic and Atlantic Meridional Overturning Circulation to Reduced and Enhanced Wind Stress Forcing. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017902.	2.6	6
56	Agreement of analytical and simulationâ€based estimates of the required land depth in climate models. Geophysical Research Letters, 2021, 48, e2021GL094273.	4.0	2
57	Reconciling Conflicting Accounts of Local Radiative Feedbacks in Climate Models. Journal of Climate, 2022, 35, 3131-3146.	3.2	2
58	Effect of Resolving Ocean Eddies on the Transient Response of Global Mean Surface Temperature to Abrupt 4xCO₂ Forcing. Geophysical Research Letters, 2021, 48, e2020GL092049.	4.0	1
59	Sea level changes mechanisms in the MPI-ESM under FAFMIP forcing conditions. Climate Dynamics, 0, , 1.	3.8	1