Juliette Mignot

List of Publications by Year
in descending order

93 papers	6,227 citations	117625 34 h-index	74163 75 g-index
111 all docs	111 docs citations	111 times ranked	7470 citing authors

#	Article	IF	Citations
1	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. Climate Dynamics, 2013, 40, 2123-2165.	3.8	1,425
2	Presentation and Evaluation of the IPSLâ€CM6Aâ€LR Climate Model. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002010.	3.8	541
3	Decadal Climate Prediction: An Update from the Trenches. Bulletin of the American Meteorological Society, 2014, 95, 243-267.	3.3	454
4	Estimating Changes in Global Temperature since the Preindustrial Period. Bulletin of the American Meteorological Society, 2017, 98, 1841-1856.	3.3	238
5	Key features of the IPSL ocean atmosphere model and its sensitivity to atmospheric resolution. Climate Dynamics, 2010, 34, 1-26.	3.8	235
6	Control of salinity on the mixed layer depth in the world ocean: 1. General description. Journal of Geophysical Research, 2007, 112, .	3.3	213
7	North Atlantic climate far more predictable than models imply. Nature, 2020, 583, 796-800.	27.8	158
8	Tropical explosive volcanic eruptions can trigger El NiÃ±o by cooling tropical Africa. Nature Communications, 2017, 8, 778.	12.8	132
9	A multi-model comparison of Atlantic multidecadal variability. Climate Dynamics, 2014, 43, 2333-2348.	3.8	126
10	Control of salinity on the mixed layer depth in the world ocean: 2. Tropical areas. Journal of Geophysical Research, 2007, 112, .	3.3	122
11	Bidecadal North Atlantic ocean circulation variability controlled by timing of volcanic eruptions. Nature Communications, 2015, 6, 6545.	12.8	101
12	Impact of Freshwater Release in the North Atlantic under Different Climate Conditions in an OAGCM. Journal of Climate, 2009, 22, 6377-6403.	3.2	94
13	The earth system model of intermediate complexity CLIMBER-3Î±. Part I: description and performance for present-day conditions. Climate Dynamics, 2005, 25, 237-263.	3.8	93
14	Atlantic Subsurface Temperatures: Response to a Shutdown of the Overturning Circulation and Consequences for Its Recovery. Journal of Climate, 2007, 20, 4884-4898.	3.2	92
15	Decadal fingerprints of freshwater discharge around Greenland in a multi-model ensemble. Climate Dynamics, 2013, 41, 695-720.	3.8	90
16	Impact of explosive volcanic eruptions on the main climate variability modes. Global and Planetary Change, 2017, 150, 24-45.	3.5	88
17	Aerosolâ€Forced AMOC Changes in CMIP6 Historical Simulations. Geophysical Research Letters, 2020, 47, e2020GL088166.	4.0	85
18	Sea surface temperature variability in the subpolar Atlantic over the last two millennia. Paleoceanography, 2011, 26, .	3.0	78

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19	Initialisation and predictability of the AMOC over the last 50Âyears in a climate model. Climate Dynamics, 2013, 40, 2381-2399.	3.8	72
20	Glacial climate sensitivity to different states of the Atlantic Meridional Overturning Circulation: results from the IPSL model. Climate of the Past, 2009, 5, 551-570.	3.4	70
21	Barrier layers and tropical Atlantic SST biases in coupled GCMs. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 60, 885.	1.7	65
22	A 20-year coupled ocean-sea ice-atmosphere variability mode in the North Atlantic in an AOGCM. Climate Dynamics, 2013, 40, 619-636.	3.8	65
23	On the interannual variability of surface salinity in the Atlantic. Climate Dynamics, 2003, 20, 555-565.	3.8	62
24	Preindustrial Control Simulations With HadGEM3â€GC3.1 for CMIP6. Journal of Advances in Modeling Earth Systems, 2018, 10, 3049-3075.	3.8	62
25	Multiyear predictability of tropical marine productivity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11646-11651.	7.1	61
26	Volcanic impact on the Atlantic Ocean over the last millennium. Climate of the Past, 2011, 7, 1439-1455.	3.4	58
27	IPSL-CM5A2 â€" an Earth system model designed for multi-millennial climate simulations. Geoscientific Model Development, 2020, 13, 3011-3053.	3.6	55
28	On the reduced sensitivity of the Atlantic overturning to Greenland ice sheet melting in projections: a multi-model assessment. Climate Dynamics, 2015, 44, 3261-3279.	3.8	53
29	On the formation of barrier layers and associated vertical temperature inversions: A focus on the northwestern tropical Atlantic. Journal of Geophysical Research, 2012, 117, .	3.3	52
30	Climate and carbon cycle dynamics in a CESM simulation from 850 to 2100 CE. Earth System Dynamics, 2015, 6, 411-434.	7.1	52
31	Labrador current variability over the last 2000 years. Earth and Planetary Science Letters, 2014, 400, 26-32.	4.4	49
32	Decadal predictability of the Atlantic meridional overturning circulation and climate in the IPSL-CM5A-LR model. Climate Dynamics, 2013, 40, 2359-2380.	3.8	46
33	Improved Decadal Predictions of North Atlantic Subpolar Gyre SST in CMIP6. Geophysical Research Letters, 2021, 48, e2020GL091307.	4.0	43
34	The Role of Northern Sea Ice Cover for the Weakening of the Thermohaline Circulation under Global Warming. Journal of Climate, 2007, 20, 4160-4171.	3.2	42
35	The Variability of the Atlantic Meridional Overturning Circulation, the North Atlantic Oscillation, and the El NiÃ±oâ€"Southern Oscillation in the Bergen Climate Model. Journal of Climate, 2005, 18, 2361-2375.	3.2	40
36	Reconciling two alternative mechanisms behind bi-decadal variability in the North Atlantic. Progress in Oceanography, 2015, 137, 237-249.	3.2	39

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37	Interannual to interdecadal variability of sea surface salinity in the Atlantic and its link to the atmosphere in a coupled model. Journal of Geophysical Research, 2004, 109, .	3.3	38
38	On the evolution of the oceanic component of the IPSL climate models from CMIP3 to CMIP5: A mean state comparison. Ocean Modelling, 2013, 72, 167-184.	2.4	35
39	Reconstructing the subsurface ocean decadal variability using surface nudging in a perfect model framework. Climate Dynamics, 2015, 44, 315-338.	3.8	30
40	A Decomposition of the Atlantic Meridional Overturning Circulation into Physical Components Using Its Sensitivity to Vertical Diffusivity. Journal of Physical Oceanography, 2006, 36, 636-650.	1.7	29
41	Satelliteâ€Based Sea Surface Salinity Designed for Ocean and Climate Studies. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017676.	2.6	29
42	Variability of the Atlantic meridional overturning circulation in the last millennium and two IPCC scenarios. Climate Dynamics, 2012, 38, 1925-1947.	3.8	27
43	Dynamics of decadal variability in the Atlantic subpolar gyre: a stochastically forced oscillator. Climate Dynamics, 2012, 39, 461-474.	3.8	26
44	On the seasonal variations of salinity of the tropical <scp>A</scp>tlantic mixed layer. Journal of Geophysical Research: Oceans, 2015, 120, 4441-4462.	2.6	26
45	Presentation and analysis of the IPSL and CNRM climate models used in CMIP5. Climate Dynamics, 2013, 40, 2089-2089.	3.8	25
46	Increased risk of near term global warming due to a recent AMOC weakening. Nature Communications, 2021, 12, 6108.	12.8	25
47	Water mass transformation and the North Atlantic Current in three multicentury climate model simulations. Journal of Geophysical Research, 2012, 117, .	3.3	24
48	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
49	The surface heat flux feedback. Part II: direct and indirect estimates in the ECHAM4/OPA8 coupled GCM. Climate Dynamics, 2002, 19, 649-655.	3.8	23
50	Sensitivity of the Atlantic Ocean circulation to a hydraulic overflow parameterisation in a coarse resolution model: Response of the subpolar gyre. Ocean Modelling, 2009, 27, 130-142.	2.4	23
51	Links between the Southern Annular Mode and the Atlantic Meridional Overturning Circulation in a Climate Model. Journal of Climate, 2011, 24, 624-640.	3.2	23
52	On the porosity of barrier layers. Ocean Science, 2009, 5, 379-387.	3.4	22
53	Weakening of the Senegaloâ€"Mauritanian upwelling system under climate change. Climate Dynamics, 2019, 53, 4447-4473.	3.8	22
54	Decadal prediction skill in the ocean with surface nudging in the IPSL-CM5A-LR climate model. Climate Dynamics, 2016, 47, 1225-1246.	3.8	21

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55	The Role of Stratification-Dependent Mixing for the Stability of the Atlantic Overturning in a Global Climate Model*. Journal of Physical Oceanography, 2007, 37, 2672-2681.	1.7	20
56	Local and remote impacts of a tropical Atlantic salinity anomaly. Climate Dynamics, 2010, 35, 1133-1147.	3.8	20
57	Atlantic Control of the Late Nineteenth-Century Sahel Humid Period. Journal of Climate, 2018, 31, 8225-8240.	3.2	20
58	North Atlantic Ocean Internal Decadal Variability: Role of the Mean State and Oceanâ€Atmosphere Coupling. Journal of Geophysical Research: Oceans, 2018, 123, 5949-5970.	2.6	20
59	Toward Consistent Observational Constraints in Climate Predictions and Projections. Frontiers in Climate, 2021, 3, .	2.8	18
60	Presentation and Evaluation of the IPSLâ€CM6Aâ€LR Ensemble of Extended Historical Simulations. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002565.	3.8	18
61	Predictable Variations of the Carbon Sinks and Atmospheric CO₂Growth in a Multiâ€Model Framework. Geophysical Research Letters, 2021, 48, e2020GL090695.	4.0	17
62	Sea surface temperature and sea ice variability in the subpolar North Atlantic from explosive volcanism of the late thirteenth century. Geophysical Research Letters, 2013, 40, 5526-5530.	4.0	14
63	Modern drought conditions in western Sahel unprecedented in the past 1600Âyears. Climate Dynamics, 2019, 52, 1949-1964.	3.8	13
64	Tropical versus high latitude freshwater influence on the Atlantic circulation. Climate Dynamics, 2006, 27, 715-725.	3.8	12
65	Multiple Equilibria as a Possible Mechanism for Decadal Variability in the North Atlantic Ocean. Journal of Climate, 2015, 28, 8907-8922.	3.2	11
66	On the risk of abrupt changes in the North Atlantic subpolar gyre in CMIP6 models. Annals of the New York Academy of Sciences, 2021, 1504, 187-201.	3.8	11
67	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
68	Assessment of time of emergence of anthropogenic deoxygenation and warming: insights from a CESM simulation from 850 to 2100â€‰CE. Biogeosciences, 2019, 16, 1755-1780.	3.3	10
69	Reconstructing climatic modes of variability from proxy records using ClimIndRec version 1.0. Geoscientific Model Development, 2020, 13, 841-858.	3.6	10
70	The Tuning Strategy of IPSLâ€CM6Aâ€LR. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002340.	3.8	10
71	On the spatial coherence of rainfall over the Saloum delta (Senegal) from seasonal to decadal time scales. Frontiers in Earth Science, 2015, 3, .	1.8	9
72	Effect of surface restoring on subsurface variability in a climate model during 1949â€"2005. Climate Dynamics, 2015, 44, 2333-2349.	3.8	9

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73	Reconstructing extreme AMOC events through nudging of the ocean surface: a perfect model approach. Climate Dynamics, 2017, 49, 3425-3441.	3.8	9
74	Impact of Climate Change on Surface Stirring and Transport in the Mediterranean Sea. Geophysical Research Letters, 2020, 47, e2020GL089941.	4.0	9
75	Skillful decadal prediction of unforced southern European summer temperature variations. Environmental Research Letters, 2021, 16, 104017.	5.2	9
76	Comment on â€œMultiyear Prediction of Monthly Mean Atlantic Meridional Overturning Circulation at 26.5Â°Nâ€. Science, 2012, 338, 604-604.	12.6	8
77	Growth and decay of the equatorial Atlantic SST mode by means of closed heat budget in a coupled general circulation model. Frontiers in Earth Science, 2015, 3, .	1.8	8
78	The impacts of oceanic deep temperature perturbations in the North Atlantic on decadal climate variability and predictability. Climate Dynamics, 2018, 51, 2341-2357.	3.8	7
79	Advances in reconstructing the AMOC using sea surface observations of salinity. Climate Dynamics, 2020, 55, 975-992.	3.8	7
80	A realistic Greenland ice sheet and surrounding glaciers and ice caps melting in a coupled climate model. Climate Dynamics, 2021, 57, 2467-2489.	3.8	7
81	Skilful decadal predictions of subpolar North Atlantic SSTs using CMIP model-analogues. Environmental Research Letters, 2021, 16, 064090.	5.2	7
82	On the robustness of near term climate predictability regarding initial state uncertainties. Climate Dynamics, 2017, 48, 353-366.	3.8	6
83	Sensitivity of the Atlantic meridional overturning circulation and climate to tropical Indian Ocean warming. Climate Dynamics, 2021, 57, 2433-2451.	3.8	6
84	Alleviation of an Arctic Sea Ice Bias in a Coupled Model Through Modifications in the Subgridâ€Scale Orographic Parameterization. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002111.	3.8	5
85	Towards an objective assessment of climate multi-model ensembles â€" a case study: the Senegalo-Mauritanian upwelling region. Geoscientific Model Development, 2020, 13, 2723-2742.	3.6	5
86	Tentative reconstruction of the 1998â€"2012 hiatus in global temperature warming using the IPSLâ€"CM5Aâ€"LR climate model. Comptes Rendus - Geoscience, 2017, 349, 369-379.	1.2	4
87	Generation of Rossby waves off the Cape Verde Peninsula: the role of the coastline. Ocean Science, 2019, 15, 1667-1690.	3.4	4
88	Is deoxygenation detectable before warming in the thermocline?. Biogeosciences, 2020, 17, 1877-1895.	3.3	3
89	Le climat du dernier millÃ©naire. La MÃ©tÃ©orologie, 2015, 8, 36.	0.5	3
90	Propagation of Thermohaline Anomalies and Their Predictive Potential along the Atlantic Water Pathway. Journal of Climate, 2022, 35, 2111-2131.	3.2	3

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91	Sensitivity of North Atlantic subpolar gyre and overturning to stratification-dependent mixing: response to global warming. Climate Dynamics, 2010, 34, 661-668.	3.8	2
92	Systematic investigation of skill opportunities in decadal prediction of air temperature over Europe. Climate Dynamics, 2021, 57, 3245-3263.	3.8	2
93	Tropical Atlantic Mixed Layer Buoyancy Seasonality: Atmospheric and Oceanic Physical Processes Contributions. Atmosphere, 2020, 11, 649.	2.3	0