

Frederic Hourdin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

2,483
citations

18
h-index

34
g-index

34
ext. papers

2,945
ext. citations

5.9
avg. IF

4.54
L-index

#	Paper	IF	Citations
31	The LMDZ4 general circulation model: climate performance and sensitivity to parametrized physics with emphasis on tropical convection. <i>Climate Dynamics</i> , 2006 , 27, 787-813	4.2	709
30	The Art and Science of Climate Model Tuning. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 589-602	6.1	250
29	LMDZ5B: the atmospheric component of the IPSL climate model with revisited parameterizations for clouds and convection. <i>Climate Dynamics</i> , 2013 , 40, 2193-2222	4.2	212
28	Impact of the LMDZ atmospheric grid configuration on the climate and sensitivity of the IPSL-CM5A coupled model. <i>Climate Dynamics</i> , 2013 , 40, 2167-2192	4.2	210
27	Presentation and Evaluation of the IPSL-CM6A-LR Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002010	7.1	188
26	The Present and Future of the West African Monsoon: A Process-Oriented Assessment of CMIP5 Simulations along the AMMA Transect. <i>Journal of Climate</i> , 2013 , 26, 6471-6505	4.4	166
25	The Use of Finite-Volume Methods for Atmospheric Advection of Trace Species. Part I: Test of Various Formulations in a General Circulation Model. <i>Monthly Weather Review</i> , 1999 , 127, 822-837	2.4	155
24	Parameterization of the Dry Convective Boundary Layer Based on a Mass Flux Representation of Thermals. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 1105-1123	2.1	87
23	A Thermal Plume Model for the Convective Boundary Layer: Representation of Cumulus Clouds. <i>Journals of the Atmospheric Sciences</i> , 2008 , 65, 407-425	2.1	84
22	High resolution simulation of the South Asian monsoon using a variable resolution global climate model. <i>Climate Dynamics</i> , 2013 , 41, 173-194	4.2	69
21	The stratospheric version of LMDz: dynamical climatologies, arctic oscillation, and impact on the surface climate. <i>Climate Dynamics</i> , 2005 , 25, 851-868	4.2	50
20	Control of deep convection by sub-cloud lifting processes: the ALP closure in the LMDZ5B general circulation model. <i>Climate Dynamics</i> , 2013 , 40, 2271-2292	4.2	45
19	LMDZ6A: The Atmospheric Component of the IPSL Climate Model With Improved and Better Tuned Physics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001892	7.1	42
18	Air moisture control on ocean surface temperature, hidden key to the warm bias enigma. <i>Geophysical Research Letters</i> , 2015 , 42, 10,885-10,893	4.9	35
17	Modeling the Dynamics of the Atmospheric Boundary Layer Over the Antarctic Plateau With a General Circulation Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 98-125	7.1	28
16	Ongoing Breakthroughs in Convective Parameterization. <i>Current Climate Change Reports</i> , 2019 , 5, 95-111	9	24
15	IPSL-CM5A2: An Earth system model designed for multi-millennial climate simulations. <i>Geoscientific Model Development</i> , 2020 , 13, 3011-3053	6.3	22

14	Antarctic boundary layer parametrization in a general circulation model: 1-D simulations facing summer observations at Dome C. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 6818-6843	4.4	19
13	Unified Parameterization of Convective Boundary Layer Transport and Clouds With the Thermal Plume Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2910-2933	7.1	15
12	Improved Near-Surface Continental Climate in IPSL-CM6A-LR by Combined Evolutions of Atmospheric and Land Surface Physics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002005	7.1	14
11	Convective Boundary Layer Control of the Sea Surface Temperature in the Tropics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001988	7.1	10
10	Improved Representation of Clouds in the Atmospheric Component LMDZ6A of the IPSL-CM6A Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002046	7.1	10
9	Process-Based Climate Model Development Harnessing Machine Learning: I. A Calibration Tool for Parameterization Improvement. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002217	7.1	10
8	Omens of coupled model biases in the CMIP5 AMIP simulations. <i>Climate Dynamics</i> , 2018 , 51, 2927-2941	4.2	9
7	Process-Based Climate Model Development Harnessing Machine Learning: II. Model Calibration From Single Column to Global. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002225	7.1	6
6	Increased risk of near term global warming due to a recent AMOC weakening. <i>Nature Communications</i> , 2021 , 12, 6108	17.4	4
5	Alleviation of an Arctic Sea Ice Bias in a Coupled Model Through Modifications in the Subgrid-Scale Orographic Parameterization. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002111	7.1	2
4	The Tuning Strategy of IPSL-CM6A-LR. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002340	7.1	2
3	Presentation and Evaluation of the IPSL-CM6A-LR Ensemble of Extended Historical Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2021MS002565	7.1	2
2	Competition Between Atmospheric and Surface Parameterizations for the Control of Air-Sea Latent Heat Fluxes in Two Single-Column Models. <i>Geophysical Research Letters</i> , 2019 , 46, 7780-7789	4.9	1
1	Process-Based Climate Model Development Harnessing Machine Learning: III. The Representation of Cumulus Geometry and Their 3D Radiative Effects. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002423	7.1	1