Florent Brient

List of Publications by Year
in descending order

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20 papers	1,510 citations	516710 16 h-index	752698 20 g-index
28 all docs	28 docs citations	28 times ranked	2210 citing authors

#	Article	IF	Citations
1	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA â€œAâ€Trainâ€• satellite observations. Journal of Geophysical Research, 2012, 117, .	3.3	316
2	Climate goals and computing the future of clouds. Nature Climate Change, 2017, 7, 3-5.	18.8	177
3	Cloud feedback mechanisms and their representation in global climate models. Wiley Interdisciplinary Reviews: Climate Change, 2017, 8, e465.	8.1	154
4	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. Journal of Advances in Modeling Earth Systems, 2013, 5, 826-842.	3.8	140
5	Interpretation of the positive low-cloud feedback predicted by a climate model under global warming. Climate Dynamics, 2013, 40, 2415-2431.	3.8	133
6	Shallowness of tropical low clouds as a predictor of climate modelsâ€™ response to warming. Climate Dynamics, 2016, 47, 433-449.	3.8	92
7	Constraints on Climate Sensitivity from Space-Based Measurements of Low-Cloud Reflection. Journal of Climate, 2016, 29, 5821-5835.	3.2	91
8	Regional and seasonal variations of the double-ITCZ bias in CMIP5 models. Climate Dynamics, 2018, 51, 101-117.	3.8	66
9	Relation of the doubleâ€ITCZ bias to the atmospheric energy budget in climate models. Geophysical Research Letters, 2016, 43, 7670-7677.	4.0	62
10	Reducing Uncertainties in Climate Projections with Emergent Constraints: Concepts, Examples and Prospects. Advances in Atmospheric Sciences, 2020, 37, 1-15.	4.3	56
11	How may lowâ€cloud radiative properties simulated in the current climate influence lowâ€cloud feedbacks under global warming?. Geophysical Research Letters, 2012, 39, .	4.0	50
12	Processâ€Based Climate Model Development Harnessing Machine Learning: I. A Calibration Tool for Parameterization Improvement. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002217.	3.8	32
13	Objectâ€Oriented Identification of Coherent Structures in Large Eddy Simulations: Importance of Downdrafts in Stratocumulus. Geophysical Research Letters, 2019, 46, 2854-2864.	4.0	28
14	Unified Parameterization of Convective Boundary Layer Transport and Clouds With the Thermal Plume Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2910-2933.	3.8	19
15	Evaluating Marine Stratocumulus Clouds in the CNRMâ€CM6â€1 Model Using Shortâ€Term Hindcasts. Journal of Advances in Modeling Earth Systems, 2019, 11, 127-148.	3.8	19
16	The potential for structural errors in emergent constraints. Earth System Dynamics, 2021, 12, 899-918.	7.1	19
17	The Cloud Feedback Model Intercomparison Project (CFMIP) Diagnostic Codes Catalogue â€“ metrics, diagnostics and methodologies to evaluate, understand and improve the representation of clouds and cloud feedbacks in climate models. Geoscientific Model Development, 2017, 10, 4285-4305.	3.6	16
18	On the Dependence of Cloud Feedbacks on Physical Parameterizations in WRF Aquaplanet Simulations. Geophysical Research Letters, 2017, 44, 10,762.	4.0	14

#	Article	IF	Citations
19	Controls on the water vapor isotopic composition near the surface of tropical oceans and role of boundary layer mixing processes. Atmospheric Chemistry and Physics, 2019, 19, 12235-12260.	4.9	14
20	Tracking Changes in Climate Sensitivity in CNRM Climate Models. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002190.	3.8	7