

Eric Guilyardi

List of Publications by Year in descending order

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74
papers

12,377
citations

81900

39
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69250

77
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90
all docs

90
docs citations

90
times ranked

12047
citing authors

#	ARTICLE	IF	CITATIONS
1	Southern Ocean transformation in a coupled model with and without eddy mass fluxes. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 52, 554.	1.7	21
2	Evaluating Climate Models with the CLIVAR 2020 ENSO Metrics Package. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E193-E217.	3.3	93
3	Sensitivity of the Atlantic meridional overturning circulation and climate to tropical Indian Ocean warming. <i>Climate Dynamics</i> , 2021, 57, 2433-2451.	3.8	6
4	The asymmetric influence of ocean heat content on ENSO predictability in the CNRM-CM5 coupled general circulation model. <i>Journal of Climate</i> , 2021, , 1-57.	3.2	5
5	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. <i>Science</i> , 2021, 374, eaay9165.	12.6	92
6	Robust Evaluation of ENSO in Climate Models: How Many Ensemble Members Are Needed?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095041.	4.0	21
7	Human-induced changes to the global ocean water masses and their time of emergence. <i>Nature Climate Change</i> , 2020, 10, 1030-1036.	18.8	37
8	Documenting numerical experiments in support of the Coupled Model Intercomparison Project Phase 6 (CMIP6). <i>Geoscientific Model Development</i> , 2020, 13, 2149-2167.	3.6	26
9	Presentation and Evaluation of the IPSLâ€œCM6Aâ€œLR Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002010.	3.8	541
10	Advances in reconstructing the AMOC using sea surface observations of salinity. <i>Climate Dynamics</i> , 2020, 55, 975-992.	3.8	7
11	Influence of Westerly Wind Events stochasticity on El NiÃ±o amplitude: the case of 2014 vs. 2015. <i>Climate Dynamics</i> , 2019, 52, 7435-7454.	3.8	35
12	Modulation of equatorial Pacific sea surface temperature response to westerly wind events by the oceanic background state. <i>Climate Dynamics</i> , 2019, 52, 7267-7291.	3.8	13
13	Northward Pathway Across the Tropical North Pacific Ocean Revealed by Surface Salinity: How do El NiÃ±o Anomalies Reach Hawaii?. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2697-2715.	2.6	28
14	Identifying causes of Western Pacific ITCZ drift in ECMWF System 4 hindcasts. <i>Climate Dynamics</i> , 2018, 50, 939-954.	3.8	22
15	Requirements for a global data infrastructure in support of CMIP6. <i>Geoscientific Model Development</i> , 2018, 11, 3659-3680.	3.6	62
16	Western Pacific Oceanic Heat Content: A Better Predictor of La NiÃ±a Than of El NiÃ±o. <i>Geophysical Research Letters</i> , 2018, 45, 9824-9833.	4.0	34
17	El NiÃ±oâ€œSouthern Oscillation complexity. <i>Nature</i> , 2018, 559, 535-545.	27.8	702
18	Tropical explosive volcanic eruptions can trigger El NiÃ±o by cooling tropical Africa. <i>Nature Communications</i> , 2017, 8, 778.	12.8	132

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19	Reconstructing extreme AMOC events through nudging of the ocean surface: a perfect model approach. <i>Climate Dynamics</i> , 2017, 49, 3425-3441.	3.8	9
20	Tentative reconstruction of the 1998â€“2012 hiatus in global temperature warming using the IPSLâ€“CM5Aâ€“LR climate model. <i>Comptes Rendus - Geoscience</i> , 2017, 349, 369-379.	1.2	4
21	Towards improved and more routine Earth system model evaluation in CMIP. <i>Earth System Dynamics</i> , 2016, 7, 813-830.	7.1	74
22	Observation and integrated Earth-system science: A roadmap for 2016â€“2025. <i>Advances in Space Research</i> , 2016, 57, 2037-2103.	2.6	35
23	Fourth CLIVAR Workshop on the Evaluation of ENSO Processes in Climate Models: ENSO in a Changing Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 817-820.	3.3	20
24	Decadal prediction skill in the ocean with surface nudging in the IPSL-CM5A-LR climate model. <i>Climate Dynamics</i> , 2016, 47, 1225-1246.	3.8	21
25	Modulation of equatorial Pacific westerly/easterly wind events by the Maddenâ€“Julian oscillation and convectively-coupled Rossby waves. <i>Climate Dynamics</i> , 2016, 46, 2155-2178.	3.8	89
26	Understanding ENSO Diversity. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 921-938.	3.3	745
27	Increased frequency of extreme LaNiÃ±a events under greenhouse warming. <i>Nature Climate Change</i> , 2015, 5, 132-137.	18.8	479
28	Processes driving intraseasonal displacements of the eastern edge of the warm pool: the contribution of westerly wind events. <i>Climate Dynamics</i> , 2015, 44, 735-755.	3.8	12
29	Bidecadal North Atlantic ocean circulation variability controlled by timing of volcanic eruptions. <i>Nature Communications</i> , 2015, 6, 6545.	12.8	101
30	Reconciling two alternative mechanisms behind bi-decadal variability in the North Atlantic. <i>Progress in Oceanography</i> , 2015, 137, 237-249.	3.2	39
31	MEETING SUMMARIES. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1969-1972.	3.3	8
32	ENSO and greenhouse warming. <i>Nature Climate Change</i> , 2015, 5, 849-859.	18.8	596
33	Effect of surface restoring on subsurface variability in a climate model during 1949â€“2005. <i>Climate Dynamics</i> , 2015, 44, 2333-2349.	3.8	9
34	The impact of westerly wind bursts and ocean initial state on the development, and diversity of El NiÃ±o events. <i>Climate Dynamics</i> , 2015, 44, 1381-1401.	3.8	147
35	Reconstructing the subsurface ocean decadal variability using surface nudging in a perfect model framework. <i>Climate Dynamics</i> , 2015, 44, 315-338.	3.8	30
36	Using palaeo-climate comparisons to constrain future projections in CMIP5. <i>Climate of the Past</i> , 2014, 10, 221-250.	3.4	193

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37	Development and exploitation of a controlled vocabulary in support of climate modelling. <i>Geoscientific Model Development</i> , 2014, 7, 479-493.	3.6	11
38	Multiyear predictability of tropical marine productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11646-11651.	7.1	61
39	ENSO representation in climate models: from CMIP3 to CMIP5. <i>Climate Dynamics</i> , 2014, 42, 1999-2018.	3.8	712
40	Increasing frequency of extreme El Niño events due to greenhouse warming. <i>Nature Climate Change</i> , 2014, 4, 111-116.	18.8	1,572
41	Response of El Niño sea surface temperature variability to greenhouse warming. <i>Nature Climate Change</i> , 2014, 4, 786-790.	18.8	147
42	A systematic approach to identify the sources of tropical SST errors in coupled models using the adjustment of initialised experiments. <i>Climate Dynamics</i> , 2014, 43, 2261-2282.	3.8	38
43	The impact of westerly wind bursts on the diversity and predictability of El Niño events: An ocean energetics perspective. <i>Geophysical Research Letters</i> , 2014, 41, 4654-4663.	4.0	79
44	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. <i>Climate Dynamics</i> , 2013, 40, 2123-2165.	3.8	1,425
45	Decadal predictability of the Atlantic meridional overturning circulation and climate in the IPSL-CM5A-LR model. <i>Climate Dynamics</i> , 2013, 40, 2359-2380.	3.8	46
46	Mid-Holocene and Last Glacial Maximum climate simulations with the IPSL model – part I: comparing IPSL_CM5A to IPSL_CM4. <i>Climate Dynamics</i> , 2013, 40, 2447-2468.	3.8	88
47	Mid-Holocene and last glacial maximum climate simulations with the IPSL model: part II: model-data comparisons. <i>Climate Dynamics</i> , 2013, 40, 2469-2495.	3.8	53
48	Using seasonal hindcasts to understand the origin of the equatorial cold tongue bias in CGCMs and its impact on ENSO. <i>Climate Dynamics</i> , 2013, 40, 963-981.	3.8	63
49	Late-twentieth-century emergence of the El Niño propagation asymmetry and future projections. <i>Nature</i> , 2013, 504, 126-130.	27.8	116
50	Initialisation and predictability of the AMOC over the last 50 years in a climate model. <i>Climate Dynamics</i> , 2013, 40, 2381-2399.	3.8	72
51	Documenting Climate Models and Their Simulations. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 623-627.	3.3	20
52	New Strategies for Evaluating ENSO Processes in Climate Models. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 235-238.	3.3	35
53	The Role of Atmosphere Feedbacks during ENSO in the CMIP3 Models. Part III: The Shortwave Flux Feedback. <i>Journal of Climate</i> , 2012, 25, 4275-4293.	3.2	112
54	Describing Earth system simulations with the Metafor CIM. <i>Geoscientific Model Development</i> , 2012, 5, 1493-1500.	3.6	15

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55	Comment on "Multiyear Prediction of Monthly Mean Atlantic Meridional Overturning Circulation at 26.5°N". <i>Science</i> , 2012, 338, 604-604.	12.6	8
56	The role of atmosphere feedbacks during ENSO in the CMIP3 models. Part II: using AMIP runs to understand the heat flux feedback mechanisms. <i>Climate Dynamics</i> , 2011, 37, 1271-1292.	3.8	66
57	How well do coupled models replicate ocean energetics relevant to ENSO?. <i>Climate Dynamics</i> , 2011, 36, 2147-2158.	3.8	21
58	The impact of global warming on the tropical Pacific Ocean and El Niño. <i>Nature Geoscience</i> , 2010, 3, 391-397.	12.9	1,029
59	The role of mean ocean salinity in climate. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 49, 108-123.	1.8	25
60	Understanding El Niño in Ocean-Atmosphere General Circulation Models: Progress and Challenges. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 325-340.	3.3	455
61	Atmosphere Feedbacks during ENSO in a Coupled GCM with a Modified Atmospheric Convection Scheme. <i>Journal of Climate</i> , 2009, 22, 5698-5718.	3.2	109
62	The role of atmosphere feedbacks during ENSO in the CMIP3 models. <i>Atmospheric Science Letters</i> , 2009, 10, 170-176.	1.9	104
63	A new feedback on climate change from the hydrological cycle. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	32
64	El Niño "mean state" seasonal cycle interactions in a multi-model ensemble. <i>Climate Dynamics</i> , 2006, 26, 329-348.	3.8	368
65	PRISM and ENES: a European approach to Earth system modelling. <i>Concurrency Computation Practice and Experience</i> , 2006, 18, 247-262.	2.2	33
66	Two Independent Triggers for the Indian Ocean Dipole/Zonal Mode in a Coupled GCM. <i>Journal of Climate</i> , 2005, 18, 3428-3449.	3.2	165
67	Triggering of El Niño by westerly wind events in a coupled general circulation model. <i>Climate Dynamics</i> , 2004, 23, 601-620.	3.8	220
68	Mechanisms for ENSO Phase Change in a Coupled GCM. <i>Journal of Climate</i> , 2003, 16, 1141-1158.	3.2	111
69	PRISM AND ENES: AN EUROPEAN APPROACH TO EARTH SYSTEM MODELLING. , 2003, , .		6
70	The March 1997 Westerly Wind Event and the Onset of the 1997/98 El Niño: Understanding the Role of the Atmospheric Response. <i>Journal of Climate</i> , 2003, 16, 3330-3343.	3.2	70
71	Simulation of the Madden-Julian Oscillation in a Coupled General Circulation Model. Part II: The Role of the Basic State. <i>Journal of Climate</i> , 2003, 16, 365-382.	3.2	150
72	A Model Study of Oceanic Mechanisms Affecting Equatorial Pacific Sea Surface Temperature during the 1997-98 El Niño. <i>Journal of Physical Oceanography</i> , 2001, 31, 1649-1675.	1.7	202

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73	Southern Ocean transformation in a coupled model with and without eddy mass fluxes. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2000, 52, 554-565.	1.7	10
74	Simulations couplées globales des changements climatiques associées à une augmentation de la teneur atmosphérique en CO ₂ . <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1998, 326, 677-684.	0.2	4