

Marcelo Barreiro

List of Publications by Year in descending order

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73
papers

2,033
citations

257450

24
h-index

254184

43
g-index

84
all docs

84
docs citations

84
times ranked

2463
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pliocene Paradox (Mechanisms for a Permanent El Nino). <i>Science</i> , 2006, 312, 1485-1489.	12.6	350
2	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. <i>Journal of Climate</i> , 2006, 19, 675-697.	3.2	269
3	Variability of the South Atlantic Convergence Zone Simulated by an Atmospheric General Circulation Model. <i>Journal of Climate</i> , 2002, 15, 745-763.	3.2	90
4	Inferring long memory processes in the climate network via ordinal pattern analysis. <i>Chaos</i> , 2011, 21, 013101.	2.5	86
5	Influence of ENSO and the South Atlantic Ocean on climate predictability over Southeastern South America. <i>Climate Dynamics</i> , 2010, 35, 1493-1508.	3.8	80
6	Simulations of warm tropical conditions with application to middle Pliocene atmospheres. <i>Climate Dynamics</i> , 2006, 26, 349-365.	3.8	61
7	Climate change impacts on the atmospheric circulation, ocean, and fisheries in the southwest South Atlantic Ocean: a review. <i>Climatic Change</i> , 2020, 162, 2359-2377.	3.6	59
8	Challenges and opportunities for improved understanding of regional climate dynamics. <i>Nature Climate Change</i> , 2018, 8, 101-108.	18.8	56
9	Quantifying Progress Across Different CMIP Phases With the ESMValTool. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032321.	3.3	50
10	Inferring interdependencies in climate networks constructed at inter-annual, intra-season and longer time scales. <i>European Physical Journal: Special Topics</i> , 2013, 222, 511-523.	2.6	45
11	The 2017 Record Marine Heatwave in the Southwestern Atlantic Shelf. <i>Geophysical Research Letters</i> , 2018, 45, 12,449.	4.0	45
12	Abrupt Climate Changes: How Freshening of the Northern Atlantic Affects the Thermohaline and Wind-Driven Oceanic Circulations. <i>Annual Review of Earth and Planetary Sciences</i> , 2008, 36, 33-58.	11.0	43
13	Assessing the direction of climate interactions by means of complex networks and information theoretic tools. <i>Chaos</i> , 2015, 25, 033105.	2.5	43
14	Simulated precipitation response to SST forcing and potential predictability in the region of the South Atlantic convergence zone. <i>Climate Dynamics</i> , 2005, 24, 105-114.	3.8	38
15	A study of the air-sea interaction in the South Atlantic Convergence Zone through Granger causality. <i>International Journal of Climatology</i> , 2015, 35, 3440-3453.	3.5	38
16	Description and evaluation of the Earth System Regional Climate Model (ES-RCM). <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1863-1886.	3.8	36
17	The Freshening of Surface Waters in High Latitudes: Effects on the Thermohaline and Wind-Driven Circulations. <i>Journal of Physical Oceanography</i> , 2007, 37, 896-907.	1.7	35
18	Dynamical elements of predicting boreal spring tropical Atlantic sea-surface temperatures. <i>Dynamics of Atmospheres and Oceans</i> , 2005, 39, 61-85.	1.8	31

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19	Land-atmosphere coupling in El Niño influence over South America. <i>Atmospheric Science Letters</i> , 2011, 12, 351-355.	1.9	31
20	Variability of chlorophyll-a in the Southwestern Atlantic from satellite images: Seasonal cycle and ENSO influences. <i>Continental Shelf Research</i> , 2013, 53, 102-109.	1.8	31
21	The CORDEX Flagship Pilot Study in southeastern South America: a comparative study of statistical and dynamical downscaling models in simulating daily extreme precipitation events. <i>Climate Dynamics</i> , 2021, 56, 1589-1608.	3.8	31
22	Atlantic modulation of El Niño influence on summertime rainfall over southeastern South America. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	30
23	Role of the global oceans and land-atmosphere interaction on summertime interdecadal variability over northern Argentina. <i>Climate Dynamics</i> , 2014, 42, 1733-1753.	3.8	28
24	Interdecadal Variability of Southeastern South America Rainfall and Moisture Sources during the Austral Summertime. <i>Journal of Climate</i> , 2016, 29, 6751-6763.	3.2	26
25	Multidecadal changes in the relationship between extreme temperature events in Uruguay and the general atmospheric circulation. <i>Climate Dynamics</i> , 2011, 37, 2471-2480.	3.8	24
26	Evolution of atmospheric connectivity in the 20th century. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 825-839.	1.3	23
27	Distinguishing the effects of internal and forced atmospheric variability in climate networks. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 617-631.	1.3	23
28	Analysis of oceans' influence on spring time rainfall variability over Southeastern South America during the 20th century. <i>International Journal of Climatology</i> , 2016, 36, 1344-1358.	3.5	23
29	ENSO teleconnections in the southern hemisphere: A climate network view. <i>Chaos</i> , 2017, 27, 093109.	2.5	20
30	Global Atmospheric Dynamics Investigated by Using Hilbert Frequency Analysis. <i>Entropy</i> , 2016, 18, 408.	2.2	19
31	Quantifying changes in spatial patterns of surface air temperature dynamics over several decades. <i>Earth System Dynamics</i> , 2018, 9, 383-391.	7.1	18
32	Interannual variability of extratropical transient wave activity and its influence on rainfall over Uruguay. <i>International Journal of Climatology</i> , 2017, 37, 4261-4274.	3.5	17
33	Identifying large-scale patterns of unpredictability and response to insolation in atmospheric data. <i>Scientific Reports</i> , 2017, 7, 45676.	3.3	17
34	Effect of future climate change on the coupling between the tropical oceans and precipitation over Southeastern South America. <i>Climatic Change</i> , 2017, 141, 315-329.	3.6	16
35	The Effect of Climate Variability on the Abundance of the Sandy Beach Clam (<i>Mesodesma mactroides</i>) in the Southwestern Atlantic. <i>Journal of Coastal Research</i> , 2017, 33, 531.	0.3	15
36	On the Role of the South Atlantic Atmospheric Circulation in Tropical Atlantic Variability. <i>Geophysical Monograph Series</i> , 0, , 143-156.	0.1	14

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37	Response of the tropical Pacific to changes in extratropical clouds. <i>Climate Dynamics</i> , 2008, 31, 713-729.	3.8	12
38	Centennial hydroclimatic and anthropogenic processes of South East South America modulate interannual and decadal river discharge. <i>Science of the Total Environment</i> , 2021, 781, 146733.	8.0	12
39	Modelling the role of Atlantic air-sea interaction in the impact of Madden-Julian Oscillation on South American climate. <i>International Journal of Climatology</i> , 2019, 39, 1104-1116.	3.5	10
40	Influence of Madden-Julian Oscillation on extreme rainfall events in Spring in southern Uruguay. <i>International Journal of Climatology</i> , 2021, 41, 3339-3351.	3.5	10
41	Climate Sensitivity to Changes in Ocean Heat Transport. <i>Journal of Climate</i> , 2011, 24, 5015-5030.	3.2	9
42	Spatiotemporal characterization of summer coastal upwelling events in Uruguay, South America. <i>Regional Studies in Marine Science</i> , 2019, 31, 100787.	0.7	9
43	Control of the South Atlantic Convergence Zone by extratropical thermal forcing. <i>Climate Dynamics</i> , 2018, 50, 885-900.	3.8	8
44	Simulated sensitivity of the tropical climate to extratropical thermal forcing: tropical SSTs and African land surface. <i>Climate Dynamics</i> , 2016, 47, 1091-1110.	3.8	7
45	Machine learning prediction of the Madden-Julian oscillation. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	6.8	7
46	Shelf Water Export at the Brazil-Malvinas Confluence Evidenced From Combined in situ and Satellite Observations. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	7
47	Ondas de calor nas capitais do Sul do Brasil e Montevidéu - Uruguai (Heat waves in the capitals of Tj ETQq1 1 0.784314 rgBT /Overdo	0.1	0
48	Estimation of Natural Variability and Detection of Anthropogenic Signal in Summertime Precipitation over South America. <i>Advances in Meteorology</i> , 2012, 2012, 1-10.	1.6	4
49	Dynamics of extreme rainfall events in summer in southern Uruguay. <i>International Journal of Climatology</i> , 2019, 39, 3655-3667.	3.5	4
50	Intraseasonal Predictions for the South American Rainfall Dipole. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089985.	4.0	4
51	Southern Hemisphere Sensitivity to ENSO Patterns and Intensities: Impacts over Subtropical South America. <i>Atmosphere</i> , 2020, 11, 77.	2.3	4
52	Sensitivity of the tropical climate to an interhemispheric thermal gradient: the role of tropical ocean dynamics. <i>Earth System Dynamics</i> , 2018, 9, 285-297.	7.1	3
53	South and North American Monsoons: Characteristics, Life Cycle, Variability, Modeling, and Prediction. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2021, , 49-66.	0.2	3
54	ENSO and SAM Influence on the Generation of Long Episodes of Rossby Wave Packets During Southern Hemisphere Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	3

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55	Predicci3n Clim3tica Estacional de Precipitaci3n Acumulada en Primavera y Verano en el Sur de Uruguay. Revista Brasileira De Meteorologia, 2017, 32, 365-373.	0.5	2
56	Uncovering temporal regularity in atmospheric dynamics through Hilbert phase analysis. Chaos, 2019, 29, 051101.	2.5	2
57	Southern hemisphere circulation anomalies and impacts over subtropical South America due to different El Ni3o flavours. International Journal of Climatology, 2020, 40, 6201-6218.	3.5	2
58	Mapping atmospheric waves and unveiling phase coherent structures in a global surface air temperature reanalysis dataset. Chaos, 2020, 30, 011103.	2.5	2
59	Climate Data Analysis. , 2019, , 27-47.		1
60	The influence of nonlinearities and different SST spatial patterns on the summertime anomalies in subtropical South America during strong ENSO events. Climate Dynamics, 2020, 54, 3765-3779.	3.8	1
61	Challenges and opportunities for improved understanding of regional climate dynamics. , 0, .		1
62	Coastal upwelling along the Uruguayan coast: Structure, variability and drivers. Journal of Marine Systems, 2022, 230, 103735.	2.1	1
63	The Climate System. , 2019, , 1-13.		0
64	Climate Variability. , 2019, , 14-26.		0
65	Climate Networks: Construction Methods and Analysis. , 2019, , 48-78.		0
66	Computational Tools for Network Analysis. , 2019, , 79-93.		0
67	Applications to Atmospheric Variability. , 2019, , 94-129.		0
68	Applications to Oceanic Variability. , 2019, , 130-160.		0
69	Climate Tipping Behavior. , 2019, , 161-197.		0
70	Network-Based Prediction. , 2019, , 198-215.		0
71	A coupled model study on the Atlantic Meridional Overturning Circulation under extreme atmospheric CO2 conditions. Annals of Geophysics, 2016, 59, .	1.0	0
72	Large-Scale Atmospheric Phenomena Under the Lens of Ordinal Time-Series Analysis and Information Theory Measures. , 2018, , 87-99.		0

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73	A late 1980s shift in El Niño influence on rainfall over Uruguay during austral spring. International Journal of Climatology, 0, , .	3.5	0