

Antonio Busalacchi

List of Publications by Citations

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66

papers

4,167

citations

31

h-index

64

g-index

70

ext. papers

4,505

ext. citations

5.3

avg, IF

4.91

L-index

#	Paper	IF	Citations
66	The Tropical Ocean-Global Atmosphere observing system: A decade of progress. <i>Journal of Geophysical Research</i> , 1998 , 103, 14169-14240		745
65	THE PIRATA PROGRAM. <i>Bulletin of the American Meteorological Society</i> , 2008 , 89, 1111-1126	6.1	264
64	Interannual Variability of the Dynamics and Thermodynamics of the Tropical Indian Ocean. <i>Journal of Climate</i> , 1999 , 12, 2300-2326	4.4	232
63	A Hybrid Vertical Mixing Scheme and Its Application to Tropical Ocean Models. <i>Journal of Physical Oceanography</i> , 1994 , 24, 2156-2179	2.4	221
62	Environmental signatures associated with cholera epidemics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17676-81	11.5	210
61	Effects of Penetrative Radiation on the Upper Tropical Ocean Circulation. <i>Journal of Climate</i> , 2002 , 15, 470-486	4.4	198
60	Origin of upper-ocean warming and El Niño change on decadal scales in the tropical Pacific Ocean. <i>Nature</i> , 1998 , 391, 879-883	50.4	196
59	A Pilot Research Moored Array in the Tropical Atlantic (PIRATA). <i>Bulletin of the American Meteorological Society</i> , 1998 , 79, 2019-2031	6.1	165
58	Simulation of the Tropical Oceans with an Ocean GCM Coupled to an Atmospheric Mixed-Layer Model. <i>Journal of Climate</i> , 1996 , 9, 1795-1815	4.4	132
57	Winter and Summer Structure of the Caribbean Low-Level Jet. <i>Journal of Climate</i> , 2008 , 21, 1260-1276	4.4	123
56	Seasonal Variability from a Model of the Tropical Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 1983 , 13, 1564-1588	2.4	100
55	The Seasonal Variability in a Model of the Tropical Pacific. <i>Journal of Physical Oceanography</i> , 1980 , 10, 1929-1951	2.4	95
54	Atlantic Climate Variability and Predictability: A CLIVAR Perspective. <i>Journal of Climate</i> , 2006 , 19, 5100-5121	4.4	82
53	A Numerical Simulation of the Mean Water Pathways in the Subtropical and Tropical Pacific Ocean. <i>Journal of Physical Oceanography</i> , 1998 , 28, 322-343	2.4	82
52	Tropical instability waves in the Atlantic Ocean. <i>Ocean Modelling</i> , 2004 , 7, 145-163	3	80
51	An Earth-System Prediction Initiative for the Twenty-First Century. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 1377-1388	6.1	71
50	Hindcasts of Sea Level Variations during the 1982-83 El Niño. <i>Journal of Physical Oceanography</i> , 1985 , 15, 213-221	2.4	66

49	A TOGA Retrospective. <i>Oceanography</i> , 2010 , 23, 86-103	2.3	61
48	Modeling Sustainability: Population, Inequality, Consumption, and Bidirectional Coupling of the Earth and Human Systems. <i>National Science Review</i> , 2016 , 3, 470-494	10.8	59
47	Remotely sensed biological production in the equatorial Pacific. <i>Science</i> , 2001 , 293, 471-4	33.3	59
46	Freshwater Flux (FWF)-Induced Oceanic Feedback in a Hybrid Coupled Model of the Tropical Pacific. <i>Journal of Climate</i> , 2009 , 22, 853-879	4.4	56
45	Initialization and Predictability of a Coupled ENSO Forecast Model*. <i>Monthly Weather Review</i> , 1997 , 125, 773-788	2.4	55
44	Developing a common strategy for integrative global environmental change research and outreach: the Earth System Science Partnership (ESSP). <i>Current Opinion in Environmental Sustainability</i> , 2009 , 1, 4-13	7.2	50
43	Variability in equatorial Pacific sea surface topography during the verification phase of the TOPEX/POSEIDON mission. <i>Journal of Geophysical Research</i> , 1994 , 99, 24725		39
42	Impact of sea surface salinity assimilation on coupled forecasts in the tropical Pacific. <i>Journal of Geophysical Research</i> , 2011 , 116,		35
41	The Effect of the Galápagos Islands on the Equatorial Pacific Cold Tongue. <i>Journal of Physical Oceanography</i> , 2007 , 37, 1266-1281	2.4	33
40	Chapter 16 Interannual and Seasonal Variability of the Tropical Atlantic ocean depicted by Sixteen years of Sea-Surface Temperature and wind stress. <i>Elsevier Oceanography Series</i> , 1985 , 40, 211-237		33
39	Relationship between zonal and meridional modes in the tropical Atlantic. <i>Geophysical Research Letters</i> , 2001 , 28, 4463-4466	4.9	32
38	The Roles of Atmospheric Stochastic Forcing (SF) and Oceanic Entrainment Temperature (Te) in Decadal Modulation of ENSO. <i>Journal of Climate</i> , 2008 , 21, 674-704	4.4	31
37	An Observing System Simulation Experiment for an Optimal Moored Instrument Array in the Tropical Indian Ocean. <i>Journal of Climate</i> , 2007 , 20, 3284-3299	4.4	31
36	Wind Stress Effects on Subsurface Pathways from the Subtropical to Tropical Atlantic. <i>Journal of Physical Oceanography</i> , 2002 , 32, 2257-2276	2.4	31
35	Spatial and temporal variability in new production in the equatorial Pacific during 1980-2003: Physical and biogeochemical controls. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006 , 53, 677-697	2.3	30
34	Application of a Reduced-Order Kalman Filter to Initialize a Coupled Atmosphere-Ocean Model: Impact on the Prediction of El Niño. <i>Journal of Climate</i> , 2001 , 14, 1720-1737	4.4	30
33	Impact of Aquarius sea surface salinity observations on coupled forecasts for the tropical Indo-Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 4045-4067	3.3	28
32	A model study of temperature anomaly propagation from the subtropics to tropics within the South Atlantic Thermocline. <i>Geophysical Research Letters</i> , 2001 , 28, 1271-1274	4.9	28

31	Observing the Galápagos-EC Interaction: Insights and Challenges. <i>Journal of Physical Oceanography</i> , 2010 , 40, 2768-2777	2.4	27
30	The Effect of Varying Stratification on Low-Frequency Equatorial Motions. <i>Journal of Physical Oceanography</i> , 1988 , 18, 801-812	2.4	25
29	Improving SST Anomaly Simulations in a Layer Ocean Model with an Embedded Entrainment Temperature Submodel. <i>Journal of Climate</i> , 2006 , 19, 4638-4663	4.4	24
28	Addressing the Complexity of the Earth System. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 1389-1396	6.1	22
27	A Need for Actionable Climate Science and Information: Summary of WCRP Open Science Conference. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, ES8-ES12	6.1	20
26	Interdecadal Change in Properties of El Niño/Southern Oscillation in an Intermediate Coupled Model. <i>Journal of Climate</i> , 2005 , 18, 1369-1380	4.4	20
25	An Empirical Model for Surface Wind Stress Response to SST Forcing Induced by Tropical Instability Waves (TIWs) in the Eastern Equatorial Pacific. <i>Monthly Weather Review</i> , 2009 , 137, 2021-2046	2.4	17
24	The Effect of the Galápagos Islands on ENSO in Forced Ocean and Hybrid Coupled Models. <i>Journal of Physical Oceanography</i> , 2008 , 38, 2519-2534	2.4	17
23	North American Droughts in ERA-40 Global and NCEP North American Regional Reanalyses: A Palmer Drought Severity Index Perspective. <i>Journal of Climate</i> , 2008 , 21, 2102-2123	4.4	16
22	Interannual variability versus seasonal variability in the Tropical Atlantic. <i>Geophysical Research Letters</i> , 1984 , 11, 787-790	4.9	15
21	Low-Frequency Variability and Remote Forcing of Gap Winds over the East Pacific Warm Pool. <i>Journal of Climate</i> , 2008 , 21, 4901-4918	4.4	13
20	Designing the Climate Observing System of the Future. <i>Earth's Future</i> , 2018 , 6, 80-102	7.9	13
19	Data Assimilation in the Ocean and in the Atmosphere : What Should be Next? (gtSpecial Issue>Data Assimilation in Meteorology and Oceanography: Theory and Practice). <i>Journal of the Meteorological Society of Japan</i> , 1997 , 75, 489-496	2.8	12
18	Freshwater Flux and Ocean Chlorophyll Produce Nonlinear Feedbacks in the Tropical Pacific. <i>Journal of Climate</i> , 2019 , 32, 2037-2055	4.4	12
17	ENSO impact on surface radiative fluxes as observed from space. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 7880-7896	3.3	11
16	The Role of SST in the East Pacific Warm Pool in the Interannual Variability of Central American Rainfall. <i>Journal of Climate</i> , 2009 , 22, 2605-2623	4.4	10
15	Mechanisms for the Interannual Variability of SST in the East Pacific Warm Pool. <i>Journal of Climate</i> , 2009 , 22, 1375-1392	4.4	10
14	Impact of Aquarius and SMAP Satellite Sea Surface Salinity Observations on Coupled El Niño/Southern Oscillation Forecasts. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 4546-4556	3.3	9

13	Estimating the global oceanic net freshwater flux from Argo and comparing it with satellite-based freshwater flux products. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 7869-7881	3.3	9
12	Interannual and Decadal Variability in Tropical Pacific Chlorophyll from a Statistical Reconstruction: 1958-2008. <i>Journal of Climate</i> , 2017 , 30, 7293-7315	4.4	9
11	A possible link between off-equatorial warm anomalies propagating along the NECC path and the onset of the 1997-98 El Niño. <i>Geophysical Research Letters</i> , 1999 , 26, 2873-2876	4.9	9
10	Data assimilation in support of tropical ocean circulation studies. <i>Elsevier Oceanography Series</i> , 1996 , 61, 235-270		9
9	The role of the Southern Ocean in global processes: an earth system science approach. <i>Antarctic Science</i> , 2004 , 16, 363-368	1.7	8
8	On the Role of Closed and Open Boundaries in a Model of the Tropical Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 1989 , 19, 831-840	2.4	8
7	Advancing Precipitation Estimation, Prediction, and Impact Studies. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1584-E1592	6.1	8
6	Oceanic Observations (Special Issue on Data Assimilation in Meteorology and Oceanography: Theory and Practice). <i>Journal of the Meteorological Society of Japan</i> , 1997 , 75, 131-154	2.8	6
5	The onset of the 1991-92 El Niño event in the tropical Pacific Ocean: The NECC subsurface pathway. <i>Geophysical Research Letters</i> , 1999 , 26, 847-850	4.9	5
4	Climate Symposium 2014: Findings and Recommendations. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, ES145-ES147	6.1	4
3	Comment on Dipoles, Temperature Gradients, and Tropical Climate Anomalies. <i>Bulletin of the American Meteorological Society</i> , 2003 , 84, 1422-1423	6.1	4
2	Applications of Data Assimilation to Analysis of the Ocean on Large Scales (Special Issue on Data Assimilation in Meteorology and Oceanography: Theory and Practice). <i>Journal of the Meteorological Society of Japan</i> , 1997 , 75, 445-462	2.8	3
1	On the Interannual Wind-Driven Response of the Tropical Pacific Ocean. <i>Elsevier Oceanography Series</i> , 1983 , 36, 155-195		3