

Boris Dewitte

List of Publications by Year in descending order

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92
papers

6,817
citations

126708

33
h-index

64668

79
g-index

97
all docs

97
docs citations

97
times ranked

6508
citing authors

#	ARTICLE	IF	CITATIONS
1	El Niño in a changing climate. <i>Nature</i> , 2009, 461, 511-514.	13.7	1,325
2	Understanding ENSO Diversity. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 921-938.	1.7	745
3	El Niño "Southern Oscillation complexity. <i>Nature</i> , 2018, 559, 535-545.	13.7	702
4	Increased variability of eastern Pacific El Niño under greenhouse warming. <i>Nature</i> , 2018, 564, 201-206.	13.7	394
5	ENSO Atmospheric Teleconnections and Their Response to Greenhouse Gas Forcing. <i>Reviews of Geophysics</i> , 2018, 56, 185-206.	9.0	330
6	Climate impacts of the El Niño "Southern Oscillation on South America. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 215-231.	12.2	318
7	Eddy activity in the four major upwelling systems from satellite altimetry (1992-2007). <i>Progress in Oceanography</i> , 2009, 83, 117-123.	1.5	242
8	Changing El Niño "Southern Oscillation in a warming climate. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 628-644.	12.2	197
9	Coastal cooling and increased productivity in the main upwelling zone off Peru since the mid-twentieth century. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	142
10	Strong and moderate nonlinear El Niño regimes. <i>Climate Dynamics</i> , 2016, 46, 1627-1645.	1.7	116
11	On the Relationship between the North Pacific Climate Variability and the Central Pacific El Niño. <i>Journal of Climate</i> , 2015, 28, 663-677.	1.2	92
12	Regionalization of rainfall over the Peruvian Pacific slope and coast. <i>International Journal of Climatology</i> , 2017, 37, 143-158.	1.5	80
13	Dynamics of seasonal and interannual variability of the Peru-Chile Undercurrent. <i>Geophysical Research Letters</i> , 2002, 29, 22-1.	1.5	79
14	Intraseasonal Tropical Atmospheric Variability Associated with the Two Flavors of El Niño. <i>Monthly Weather Review</i> , 2012, 140, 3669-3681.	0.5	70
15	Equatorial waves and warm pool displacements during the 1992-1998 El Niño Southern Oscillation events: Observation and modeling. <i>Journal of Geophysical Research</i> , 2000, 105, 26045-26062.	3.3	63
16	High-resolution modeling of the Eastern Tropical Pacific oxygen minimum zone: Sensitivity to the tropical oceanic circulation. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5515-5532.	1.0	63
17	Vertical Structure of an OGCM Simulation of the Equatorial Pacific Ocean in 1985-94. <i>Journal of Physical Oceanography</i> , 1999, 29, 1542-1570.	0.7	61
18	Boundaries of the Peruvian oxygen minimum zone shaped by coherent mesoscale dynamics. <i>Nature Geoscience</i> , 2015, 8, 937-940.	5.4	61

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19	Sensitivity of the Humboldt Current system to global warming: a downscaling experiment of the IPSL-CM4 model. <i>Climate Dynamics</i> , 2012, 38, 761-774.	1.7	59
20	On the importance of subsurface variability for ENSO simulation and prediction with intermediate coupled models of the Tropical Pacific: A case study for the 1997-1998 El Niño. <i>Geophysical Research Letters</i> , 2002, 29, 11-1-11-5.	1.5	56
21	Tropical Pacific Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	56
22	Marine protected areas invaded by floating anthropogenic litter: An example from the South Pacific. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019, 29, 245-259.	0.9	55
23	Impact of atmospheric coastal jet off central Chile on sea surface temperature from satellite observations (2000–2007). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	54
24	Interactive Feedback between the Tropical Pacific Decadal Oscillation and ENSO in a Coupled General Circulation Model. <i>Journal of Climate</i> , 2009, 22, 6597-6611.	1.2	53
25	The OMZ and nutrient features as a signature of interannual and low-frequency variability in the Peruvian upwelling system. <i>Biogeosciences</i> , 2017, 14, 4601-4617.	1.3	53
26	Upwelling response to atmospheric coastal jets off central Chile: A modeling study of the October 2000 event. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
27	Sensitivity of an Intermediate Ocean–Atmosphere Coupled Model of the Tropical Pacific to Its Oceanic Vertical Structure. <i>Journal of Climate</i> , 2000, 13, 2363-2388.	1.2	43
28	Equatorial forcing of interannual Rossby waves in the eastern South Pacific. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	43
29	Impacts of Kelvin wave forcing in the Peru Humboldt Current system: Scenarios of spatial reorganizations from physics to fishers. <i>Progress in Oceanography</i> , 2008, 79, 278-289.	1.5	42
30	An analysis of SST gradients off the Peruvian Coast: The impact of going to higher resolution. <i>Remote Sensing of Environment</i> , 2013, 131, 76-84.	4.6	42
31	Seasonal variability of the Ekman transport and pumping in the upwelling system off central-northern Chile (14°–30°S) based on a high-resolution atmospheric regional model (WRF). <i>Ocean Science</i> , 2016, 12, 1049-1065.	1.2	37
32	Seasonal variability of the oxygen minimum zone off Peru in a high-resolution regional coupled model. <i>Biogeosciences</i> , 2016, 13, 4389-4410.	1.3	37
33	Equatorially forced intraseasonal propagations along the Peru–Chile coast and their relation with the nearshore eddy activity in 1992–2000: A modeling study. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	36
34	The role of open ocean boundary forcing on seasonal to decadal-scale variability and long-term change of natural shelf hypoxia. <i>Environmental Research Letters</i> , 2011, 6, 025002.	2.2	35
35	Low-Frequency Modulation of Intraseasonal Equatorial Kelvin Wave Activity in the Pacific from SODA: 1958–2001. <i>Journal of Climate</i> , 2008, 21, 6060-6069.	1.2	34
36	SST subseasonal variability in the central Benguela upwelling system as inferred from satellite observations (1999–2009). <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4092-4110.	1.0	33

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37	Mechanisms of tropical Pacific interannual-to-decadal variability in the ARPEGE/ORCA global coupled model. <i>Climate Dynamics</i> , 2005, 24, 823-842.	1.7	31
38	Seasonal variability of the permanent thermocline off northern Chile. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	31
39	Rectification of ENSO Variability by Interdecadal Changes in the Equatorial Background Mean State in a CGCM Simulation. <i>Journal of Climate</i> , 2007, 20, 2002-2021.	1.2	31
40	El Niño-La Niña Events Simulated with Cane and Zebiak's Model and Observed with Satellite or In Situ Data. Part II: Model Forced with Observations. <i>Journal of Climate</i> , 1996, 9, 1188-1207.	1.2	30
41	Reinterpreting the thermocline feedback in the western-central equatorial Pacific and its relationship with the ENSO modulation. <i>Climate Dynamics</i> , 2013, 41, 819-830.	1.7	29
42	Low-frequency modulation and trend of the relationship between ENSO and precipitation along the northern to centre Peruvian Pacific coast. <i>Hydrological Processes</i> , 2015, 29, 1252-1266.	1.1	29
43	Tropical Pacific baroclinic mode contribution and associated long waves for the 1994-1999 period from an assimilation experiment with altimetric data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	28
44	Vertical structure variability in the equatorial Pacific before and after the Pacific climate shift of the 1970s. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	28
45	Rainfall along the coast of Peru during strong El Niño events. <i>International Journal of Climatology</i> , 2018, 38, 1737-1747.	1.5	28
46	Vertical propagation of extratropical Rossby waves during the 1997-1998 El Niño off the west coast of South America in a medium-resolution OGCM simulation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
47	Assessing multidecadal runoff (1970-2010) using regional hydrological modelling under data and water scarcity conditions in Peruvian Pacific catchments. <i>Hydrological Processes</i> , 2019, 33, 20-35.	1.1	27
48	Assessing the impact of downscaled winds on a regional ocean model simulation of the Humboldt system. <i>Ocean Modelling</i> , 2013, 65, 11-24.	1.0	26
49	A theoretical model of strong and moderate El Niño regimes. <i>Climate Dynamics</i> , 2019, 52, 7477-7493.	1.7	24
50	Diversity of moderate El Niño events evolution: role of air-sea interactions in the eastern tropical Pacific. <i>Climate Dynamics</i> , 2019, 52, 7455-7476.	1.7	24
51	Interaction between Near-Annual and ENSO Modes in a CGCM Simulation: Role of the Equatorial Background Mean State. <i>Journal of Climate</i> , 2007, 20, 1035-1052.	1.2	23
52	Forcing mechanisms of intraseasonal SST variability off central Peru in 2000-2008. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3548-3573.	1.0	23
53	Vertical structure variability in a seasonal simulation of a medium-resolution regional model of the Eastern South Pacific. <i>Progress in Oceanography</i> , 2008, 79, 120-137.	1.5	22
54	El Niño-La Niña Events Simulated with Cane and Zebiak's Model and Observed with Satellite or In Situ Data. Part I: Model Data Comparison. <i>Journal of Climate</i> , 1996, 9, 66-84.	1.2	21

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55	Quasi-decadal and inter-decadal climate fluctuations in the Pacific Ocean from a CGCM. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	21
56	Vertically Propagating Annual and Interannual Variability in an OGCM Simulation of the Tropical Pacific Ocean in 1985–94. <i>Journal of Physical Oceanography</i> , 2000, 30, 1562-1581.	0.7	19
57	ENSO Feedbacks and Associated Time Scales of Variability in a Multimodel Ensemble. <i>Journal of Climate</i> , 2010, 23, 3181-3204.	1.2	19
58	Change in strong Eastern Pacific El Niño events dynamics in the warming climate. <i>Climate Dynamics</i> , 2020, 54, 901-918.	1.7	19
59	Local Coupled Equatorial Variability versus Remote ENSO Forcing in an Intermediate Coupled Model of the Tropical Atlantic. <i>Journal of Climate</i> , 2006, 19, 5227-5252.	1.2	18
60	Subsurface Mesoscale Eddy Generation in the Ocean off Central Chile. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5700-5722.	1.0	18
61	Small-scale features of temperature and salinity surface fields in the Coral Sea. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5426-5438.	1.0	16
62	On the Role of Meridional Wind Anomalies in a Coupled Model of ENSO. <i>Journal of Climate</i> , 1997, 10, 761-773.	1.2	15
63	Sensitivity of ENSO to Stratification in a Recharge–Discharge Conceptual Model. <i>Journal of Climate</i> , 2011, 24, 4332-4349.	1.2	15
64	Hydroclimatic change disparity of Peruvian Pacific drainage catchments. <i>Theoretical and Applied Climatology</i> , 2018, 134, 139-153.	1.3	15
65	Influence of Recent Stratification Changes on ENSO Stability in a Conceptual Model of the Equatorial Pacific. <i>Journal of Climate</i> , 2013, 26, 4790-4802.	1.2	14
66	Changes in mixed layer depth under climate change projections in two CGCMs. <i>Climate Dynamics</i> , 2009, 33, 199-213.	1.7	12
67	Role of the upper ocean structure in the response of ENSO-like SST variability to global warming. <i>Climate Dynamics</i> , 2010, 35, 355-369.	1.7	12
68	Modulation of the vertical particle transfer efficiency in the oxygen minimum zone off Peru. <i>Biogeosciences</i> , 2018, 15, 5093-5111.	1.3	12
69	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	12
70	The characteristic oscillation induced by coupled processes between oceanic vertical modes and atmospheric modes in the tropical Pacific. <i>Geophysical Research Letters</i> , 2001, 28, 2847-2850.	1.5	11
71	The relationship between intraseasonal tropical variability and ENSO and its modulation at seasonal to decadal timescales. <i>Open Geosciences</i> , 2011, 3, 175-196.	0.6	11
72	An Asymptotic Expansion for the Recharge–Discharge Model of ENSO. <i>Journal of Physical Oceanography</i> , 2013, 43, 1407-1416.	0.7	11

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73	Influence of Oceanic Intraseasonal Kelvin Waves on Eastern Pacific Hurricane Activity. <i>Journal of Climate</i> , 2016, 29, 7941-7955.	1.2	11
74	The seasonal relationship between intraseasonal tropical variability and ENSO in CMIP5. <i>Geoscientific Model Development</i> , 2018, 11, 2373-2392.	1.3	11
75	First Deployment and Validation of in Situ Silicate Electrochemical Sensor in Seawater. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	11
76	Decadal modulation of the relationship between intraseasonal tropical variability and ENSO. <i>Climate Dynamics</i> , 2019, 52, 2091-2103.	1.7	10
77	Understanding the impact of climate change on the oceanic circulation in the Chilean island ecoregions. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021, 31, 232-252.	0.9	10
78	A non-linear statistical downscaling model: El Niño/Southern Oscillation impact on precipitation over New Caledonia. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	9
79	Asymmetric connectivity of the lobster <i>Panulirus pascuensis</i> in remote islands of the southern Pacific: importance for its management and conservation. <i>Bulletin of Marine Science</i> , 2018, 94, 753-774.	0.4	9
80	Dynamics of the Carbonate System Across the Peruvian Oxygen Minimum Zone. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	9
81	Using Data and Intermediate Coupled Models for Seasonal-to-Interannual Forecasts. <i>Monthly Weather Review</i> , 2000, 128, 3025-3049.	0.5	8
82	ENSO diversity driving low-frequency change in mesoscale activity off Peru and Chile. <i>Scientific Reports</i> , 2020, 10, 17902.	1.6	8
83	On the relationship between ENSO diversity and the ENSO atmospheric teleconnection to high latitudes. <i>International Journal of Climatology</i> , 2022, 42, 1303-1325.	1.5	8
84	Source of low frequency modulation of ENSO amplitude in a CGCM. <i>Climate Dynamics</i> , 2007, 29, 101-111.	1.7	5
85	Absolute or convective instability in the equatorial Pacific and implications for ENSO. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 600-606.	1.0	5
86	Changes in the spatial structure of strong and moderate El Niño events under global warming. <i>International Journal of Climatology</i> , 2014, 34, 2834-2840.	1.5	5
87	Air-Sea Turbulent Fluxes From a Wave-Following Platform During Six Experiments at Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4290-4321.	1.0	5
88	Intraseasonal Hydrographic Variations and Nearshore Carbonates System Off Northern Chile During the 2015 El Niño Event. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005704.	1.3	4
89	SEASONAL AND MESOSCALE VARIABILITY IN THE PERU UPWELLING SYSTEM FROM IN SITU DATA DURING THE YEARS 2000 TO 2004. <i>Gayana</i> , 2004, 68, .	0.0	4
90	The influences of interannual stratification variability and wind stress forcing on ENSO before and after the 1976 climate shift. <i>Theoretical and Applied Climatology</i> , 2012, 107, 623-631.	1.3	1

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91	Impact of Sea Level Assimilation on ENSO Initialization and Prediction: The Role of the Sea Level Zonal Tilt and Zonal Mean. <i>Monthly Weather Review</i> , 2015, 143, 1895-1906.	0.5	0
92	RECTIFICATION OF THE ENSO VARIABILITY BY INTERDECADAL CHANGES IN THE EQUATORIAL BACKGROUND MEAN STATE IN A CGCM SIMULATION. <i>Gayana</i> , 2004, 68, .	0.0	0