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	On the relationship between <scp>ENSO</scp> diversity and the <scp>ENSO</scp> atmospheric teleconnection to highâ€latitudes. International Journal of Climatology, 2022, 42, 1303-1325.	1.5	8
2	Understanding the impact of climate change on the oceanic circulation in the Chilean island ecoregions. Aquatic Conservation: Marine and Freshwater Ecosystems, 2021, 31, 232-252.	0.9	10
3	Changing El NiÃ±oâ€“Southern Oscillation in a warming climate. Nature Reviews Earth & Environment, 2021, 2, 628-644.	12.2	197
4	Change in strong Eastern Pacific El NiÃ±o events dynamics in the warming climate. Climate Dynamics, 2020, 54, 901-918.	1.7	19
5	Intraseasonal Hydrographic Variations and Nearshore Carbonates System Off Northern Chile During the 2015 El NiÃ±o Event. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005704.	1.3	4
6	ENSO diversity driving low-frequency change in mesoscale activity off Peru and Chile. Scientific Reports, 2020, 10, 17902.	1.6	8
7	Climate impacts of the El NiÃ±oâ€“Southern Oscillation on South America. Nature Reviews Earth & Environment, 2020, 1, 215-231.	12.2	318
8	Decadal modulation of the relationship between intraseasonal tropical variability and ENSO. Climate Dynamics, 2019, 52, 2091-2103.	1.7	10
9	Subsurface Mesoscale Eddy Generation in the Ocean off Central Chile. Journal of Geophysical Research: Oceans, 2019, 124, 5700-5722.	1.0	18
10	Tropical Pacific Observing System. Frontiers in Marine Science, 2019, 6, .	1.2	56
11	Marine protected areas invaded by floating anthropogenic litter: An example from the South Pacific. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 245-259.	0.9	55
12	Dynamics of the Carbonate System Across the Peruvian Oxygen Minimum Zone. Frontiers in Marine Science, 2019, 6, .	1.2	9
13	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. Frontiers in Marine Science, 2019, 6, .	1.2	12
14	Airâ€Sea Turbulent Fluxes From a Waveâ€Following Platform During Six Experiments at Sea. Journal of Geophysical Research: Oceans, 2019, 124, 4290-4321.	1.0	5
15	Assessing multidecadal runoff (1970â€“2010) using regional hydrological modelling under data and water scarcity conditions in Peruvian Pacific catchments. Hydrological Processes, 2019, 33, 20-35.	1.1	27
16	A theoretical model of strong and moderate El NiÃ±o regimes. Climate Dynamics, 2019, 52, 7477-7493.	1.7	24
17	Diversity of moderate El NiÃ±o events evolution: role of airâ€“sea interactions in the eastern tropical Pacific. Climate Dynamics, 2019, 52, 7455-7476.	1.7	24
18	ENSO Atmospheric Teleconnections and Their Response to Greenhouse Gas Forcing. Reviews of Geophysics, 2018, 56, 185-206.	9.0	330

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19	Rainfall along the coast of Peru during strong El NiÃ±o events. International Journal of Climatology, 2018, 38, 1737-1747.	1.5	28
20	Hydroclimatic change disparity of Peruvian Pacific drainage catchments. Theoretical and Applied Climatology, 2018, 134, 139-153.	1.3	15
21	The seasonal relationship between intraseasonal tropical variability and ENSO in CMIP5. Geoscientific Model Development, 2018, 11, 2373-2392.	1.3	11
22	Increased variability of eastern Pacific El NiÃ±o under greenhouse warming. Nature, 2018, 564, 201-206.	13.7	394
23	El NiÃ±oâ€“Southern Oscillation complexity. Nature, 2018, 559, 535-545.	13.7	702
24	First Deployment and Validation of in Situ Silicate Electrochemical Sensor in Seawater. Frontiers in Marine Science, 2018, 5, .	1.2	11
25	Asymmetric connectivity of the lobster Panulirus pascuensis in remote islands of the southern Pacific: importance for its management and conservation. Bulletin of Marine Science, 2018, 94, 753-774.	0.4	9
26	Modulation of the vertical particle transfer efficiency in the oxygen minimum zone off Peru. Biogeosciences, 2018, 15, 5093-5111.	1.3	12
27	Regionalization of rainfall over the Peruvian Pacific slope and coast. International Journal of Climatology, 2017, 37, 143-158.	1.5	80
28	The OMZ and nutrient features as a signature of interannual and low-frequency variability in the Peruvian upwelling system. Biogeosciences, 2017, 14, 4601-4617.	1.3	53
29	Seasonal variability of the Ekman transport and pumping in the upwelling system off central-northern Chile (â^¼â€‰â€¯30Â°â€¯S) based on a high-resolution atmospheric regional model (WRF). Ocean Science, 2016, 12, 1049-1065.	1.2	37
30	Seasonal variability of the oxygen minimum zone off Peru in a high-resolution regional coupled model. Biogeosciences, 2016, 13, 4389-4410.	1.3	37
31	Influence of Oceanic Intraseasonal Kelvin Waves on Eastern Pacific Hurricane Activity. Journal of Climate, 2016, 29, 7941-7955.	1.2	11
32	Strong and moderate nonlinear El NiÃ±o regimes. Climate Dynamics, 2016, 46, 1627-1645.	1.7	116
33	Understanding ENSO Diversity. Bulletin of the American Meteorological Society, 2015, 96, 921-938.	1.7	745
34	Lowâ€frequency modulation and trend of the relationship between ENSO and precipitation along the northern to centre Peruvian Pacific coast. Hydrological Processes, 2015, 29, 1252-1266.	1.1	29
35	Impact of Sea Level Assimilation on ENSO Initialization and Prediction: The Role of the Sea Level Zonal Tilt and Zonal Mean. Monthly Weather Review, 2015, 143, 1895-1906.	0.5	0
36	Boundaries of the Peruvian oxygen minimum zone shaped by coherent mesoscale dynamics. Nature Geoscience, 2015, 8, 937-940.	5.4	61

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37	On the Relationship between the North Pacific Climate Variability and the Central Pacific El NiÃ±o. Journal of Climate, 2015, 28, 663-677.	1.2	92
38	Changes in the spatial structure of strong and moderate Elâ€‰NiÃ±o events under global warming. International Journal of Climatology, 2014, 34, 2834-2840.	1.5	5
39	Forcing mechanisms of intraseasonal SST variability off central Peru in 2000â€“2008. Journal of Geophysical Research: Oceans, 2014, 119, 3548-3573.	1.0	23
40	Highâ€resolution modeling of the Eastern Tropical Pacific oxygen minimum zone: Sensitivity to the tropical oceanic circulation. Journal of Geophysical Research: Oceans, 2014, 119, 5515-5532.	1.0	63
41	Absolute or convective instability in the equatorial Pacific and implications for ENSO. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 600-606.	1.0	5
42	Reinterpreting the thermocline feedback in the western-central equatorial Pacific and its relationship with the ENSO modulation. Climate Dynamics, 2013, 41, 819-830.	1.7	29
43	An analysis of SST gradients off the Peruvian Coast: The impact of going to higher resolution. Remote Sensing of Environment, 2013, 131, 76-84.	4.6	42
44	An Asymptotic Expansion for the Rechargeâ€“Discharge Model of ENSO. Journal of Physical Oceanography, 2013, 43, 1407-1416.	0.7	11
45	Assessing the impact of downscaled winds on a regional ocean model simulation of the Humboldt system. Ocean Modelling, 2013, 65, 11-24.	1.0	26
46	SST subseasonal variability in the central Benguela upwelling system as inferred from satellite observations (1999â€“2009). Journal of Geophysical Research: Oceans, 2013, 118, 4092-4110.	1.0	33
47	Influence of Recent Stratification Changes on ENSO Stability in a Conceptual Model of the Equatorial Pacific. Journal of Climate, 2013, 26, 4790-4802.	1.2	14
48	Small-scale features of temperature and salinity surface fields in the Coral Sea. Journal of Geophysical Research: Oceans, 2013, 118, 5426-5438.	1.0	16
49	Intraseasonal Tropical Atmospheric Variability Associated with the Two Flavors of El NiÃ±o. Monthly Weather Review, 2012, 140, 3669-3681.	0.5	70
50	Upwelling response to atmospheric coastal jets off central Chile: A modeling study of the October 2000 event. Journal of Geophysical Research, 2012, 117, .	3.3	48
51	Equatorially forced intraseasonal propagations along the Peruâ€Chile coast and their relation with the nearshore eddy activity in 1992â€“2000: A modeling study. Journal of Geophysical Research, 2012, 117, .	3.3	36
52	The influences of interannual stratification variability and wind stress forcing on ENSO before and after the 1976 climate shift. Theoretical and Applied Climatology, 2012, 107, 623-631.	1.3	1
53	Sensitivity of the Humboldt Current system to global warming: a downscaling experiment of the IPSL-CM4 model. Climate Dynamics, 2012, 38, 761-774.	1.7	59
54	Coastal cooling and increased productivity in the main upwelling zone off Peru since the mid-twentieth century. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	142

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55	The role of open ocean boundary forcing on seasonal to decadal-scale variability and long-term change of natural shelf hypoxia. Environmental Research Letters, 2011, 6, 025002.	2.2	35
56	The relationship between intraseasonal tropical variability and ENSO and its modulation at seasonal to decadal timescales. Open Geosciences, 2011, 3, 175-196.	0.6	11
57	Sensitivity of ENSO to Stratification in a Rechargeâ€“Discharge Conceptual Model. Journal of Climate, 2011, 24, 4332-4349.	1.2	15
58	Role of the upper ocean structure in the response of ENSO-like SST variability to global warming. Climate Dynamics, 2010, 35, 355-369.	1.7	12
59	ENSO Feedbacks and Associated Time Scales of Variability in a Multimodel Ensemble. Journal of Climate, 2010, 23, 3181-3204.	1.2	19
60	Eddy activity in the four major upwelling systems from satellite altimetry (1992â€“2007). Progress in Oceanography, 2009, 83, 117-123.	1.5	242
61	Changes in mixed layer depth under climate change projections in two CGCMs. Climate Dynamics, 2009, 33, 199-213.	1.7	12
62	El NiÃ±o in a changing climate. Nature, 2009, 461, 511-514.	13.7	1,325
63	Interactive Feedback between the Tropical Pacific Decadal Oscillation and ENSO in a Coupled General Circulation Model. Journal of Climate, 2009, 22, 6597-6611.	1.2	53
64	Impact of atmospheric coastal jet off central Chile on sea surface temperature from satellite observations (2000â€“2007). Journal of Geophysical Research, 2009, 114, .	3.3	54
65	Vertical structure variability in a seasonal simulation of a medium-resolution regional model of the Eastern South Pacific. Progress in Oceanography, 2008, 79, 120-137.	1.5	22
66	Impacts of Kelvin wave forcing in the Peru Humboldt Current system: Scenarios of spatial reorganizations from physics to fishers. Progress in Oceanography, 2008, 79, 278-289.	1.5	42
67	Vertical propagation of extratropical Rossby waves during the 1997â€“1998 El NiÃ±o off the west coast of South America in a mediumâ€resolution OGCM simulation. Journal of Geophysical Research, 2008, 113, .	3.3	27
68	Low-Frequency Modulation of Intraseasonal Equatorial Kelvin Wave Activity in the Pacific from SODA: 1958â€“2001. Journal of Climate, 2008, 21, 6060-6069.	1.2	34
69	Interaction between Near-Annual and ENSO Modes in a CGCM Simulation: Role of the Equatorial Background Mean State. Journal of Climate, 2007, 20, 1035-1052.	1.2	23
70	Rectification of ENSO Variability by Interdecadal Changes in the Equatorial Background Mean State in a CGCM Simulation. Journal of Climate, 2007, 20, 2002-2021.	1.2	31
71	Source of low frequency modulation of ENSO amplitude in a CGCM. Climate Dynamics, 2007, 29, 101-111.	1.7	5
72	Seasonal variability of the permanent thermocline off northern Chile. Geophysical Research Letters, 2006, 33, .	1.5	31

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73	Local Coupled Equatorial Variability versus Remote ENSO Forcing in an Intermediate Coupled Model of the Tropical Atlantic. Journal of Climate, 2006, 19, 5227-5252.	1.2	18
74	Mechanisms of tropical Pacific interannual-to-decadal variability in the ARPEGE/ORCA global coupled model. Climate Dynamics, 2005, 24, 823-842.	1.7	31
75	Quasi-decadal and inter-decadal climate fluctuations in the Pacific Ocean from a CGCM. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	21
76	Vertical structure variability in the equatorial Pacific before and after the Pacific climate shift of the 1970s. Geophysical Research Letters, 2004, 31, .	1.5	28
77	A non-linear statistical downscaling model: El NiÃ±o/Southern Oscillation impact on precipitation over New Caledonia. Geophysical Research Letters, 2004, 31, .	1.5	9
78	SEASONAL AND MESOSCALE VARIABILITY IN THE PERU UPWELLING SYSTEM FROM IN SITU DATA DURING THE YEARS 2000 TO 2004. Gayana, 2004, 68, .	0.0	4
79	RECTIFICATION OF THE ENSO VARIABILITY BY INTERDECADAL CHANGES IN THE EQUATORIAL BACKGROUND MEAN STATE IN A CGCM SIMULATION. Gayana, 2004, 68, .	0.0	0
80	Equatorial forcing of interannual Rossby waves in the eastern South Pacific. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	43
81	Tropical Pacific baroclinic mode contribution and associated long waves for the 1994â€“1999 period from an assimilation experiment with altimetric data. Journal of Geophysical Research, 2003, 108, .	3.3	28
82	Dynamics of seasonal and interannual variability of the Peru-Chile Undercurrent. Geophysical Research Letters, 2002, 29, 22-1.	1.5	79
83	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 NiÃ±o. Geophysical Research Letters, 2002, 29, 11-1-11-5.	1.5	56
84	The characteristic oscillation induced by coupled processes between oceanic vertical modes and atmospheric modes in the tropical Pacific. Geophysical Research Letters, 2001, 28, 2847-2850.	1.5	11
85	Vertically Propagating Annual and Interannual Variability in an OGCM Simulation of the Tropical Pacific Ocean in 1985â€“94. Journal of Physical Oceanography, 2000, 30, 1562-1581.	0.7	19
86	Sensitivity of an Intermediate Oceanâ€“Atmosphere Coupled Model of the Tropical Pacific to Its Oceanic Vertical Structure. Journal of Climate, 2000, 13, 2363-2388.	1.2	43
87	Using Data and Intermediate Coupled Models for Seasonal-to-Interannual Forecasts. Monthly Weather Review, 2000, 128, 3025-3049.	0.5	8
88	Equatorial waves and warm pool displacements during the 1992-1998 El NiÃ±o Southern Oscillation events: Observation and modeling. Journal of Geophysical Research, 2000, 105, 26045-26062.	3.3	63
89	Vertical Structure of an OGCM Simulation of the Equatorial Pacific Ocean in 1985â€“94. Journal of Physical Oceanography, 1999, 29, 1542-1570.	0.7	61
90	On the Role of Meridional Wind Anomalies in a Coupled Model of ENSO. Journal of Climate, 1997, 10, 761-773.	1.2	15

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91	El NiÃ±oâ€“La NiÃ±a Events Simulated with Cane and Zebiak's Model and Observed with Satellite or In Situ Data. Part I: Model Data Comparison. Journal of Climate, 1996, 9, 66-84.	1.2	21
92	El NiÃ±o-La NiÃ±a Events Simulated with Cane and Zebiak's Model and Observed with Satellite or In Situ Data. Part II: Model Forced with Observations. Journal of Climate, 1996, 9, 1188-1207.	1.2	30