

Bruno Blanke

List of Publications by Year in descending order

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76
papers

4,536
citations

117625

34
h-index

106344

65
g-index

76
all docs

76
docs citations

76
times ranked

4816
citing authors

#	ARTICLE	IF	CITATIONS
1	Variability of the Tropical Atlantic Ocean Simulated by a General Circulation Model with Two Different Mixed-Layer Physics. <i>Journal of Physical Oceanography</i> , 1993, 23, 1363-1388.	1.7	665
2	Kinematics of the Pacific Equatorial Undercurrent: An Eulerian and Lagrangian Approach from GCM Results. <i>Journal of Physical Oceanography</i> , 1997, 27, 1038-1053.	1.7	356
3	Lagrangian ocean analysis: Fundamentals and practices. <i>Ocean Modelling</i> , 2018, 121, 49-75.	2.4	313
4	A Lagrangian tool for modelling ichthyoplankton dynamics. <i>Environmental Modelling and Software</i> , 2008, 23, 1210-1214.	4.5	299
5	Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015, 348, 1261-1267.	12.6	158
6	Estimating the Effect of Stochastic Wind Stress Forcing on ENSO Irregularity. <i>Journal of Climate</i> , 1997, 10, 1473-1486.	3.2	152
7	Warm Water Paths in the Equatorial Atlantic as Diagnosed with a General Circulation Model. <i>Journal of Physical Oceanography</i> , 1999, 29, 2753-2768.	1.7	149
8	Tasman leakage: A new route in the global ocean conveyor belt. <i>Geophysical Research Letters</i> , 2002, 29, 55-1-55-4.	4.0	136
9	Tracking coherent structures in a regional ocean model with wavelet analysis: Application to Cape Basin eddies. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	125
10	Atlantic meridional overturning circulation and the Southern Hemisphere supergyre. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	123
11	Warm and cold water routes of an O.G.C.M. thermohaline conveyor belt. <i>Geophysical Research Letters</i> , 2001, 28, 311-314.	4.0	87
12	Extratropical sources of Equatorial Pacific upwelling in an OGCM. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	77
13	Anticyclonic Eddies Connecting the Western Boundaries of Indian and Atlantic Oceans. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7651-7677.	2.6	75
14	From the western boundary currents to the Pacific Equatorial Undercurrent: Modeled pathways and water mass evolutions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	70
15	Modeling the Barrier-Layer Formation in the Southeastern Arabian Sea*. <i>Journal of Climate</i> , 2007, 20, 2109-2120.	3.2	66
16	Estimates of the mortality and the duration of the trans-Atlantic migration of European eel <i>Anguilla anguilla</i> leptocephali using a particle tracking model. <i>Journal of Fish Biology</i> , 2009, 74, 1891-1914.	1.6	62
17	How fast can the European eel (<i>Anguilla anguilla</i>) larvae cross the Atlantic Ocean?. <i>Fisheries Oceanography</i> , 2009, 18, 371-385.	1.7	57
18	The Role of Southern Ocean Surface Forcings and Mixing in the Global Conveyor. <i>Journal of Physical Oceanography</i> , 2008, 38, 1377-1400.	1.7	54

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19	The Global Conveyor Belt from a Southern Ocean Perspective. <i>Journal of Physical Oceanography</i> , 2008, 38, 1401-1425.	1.7	52
20	A Lagrangian analysis of the Indian-Atlantic interocean exchange in a regional model. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	48
21	Mesoscale eddy activity in the southern Benguela upwelling system from satellite altimetry and model data. <i>Progress in Oceanography</i> , 2009, 83, 288-295.	3.2	47
22	Estimating the Lagrangian residual circulation in the Iroise Sea. <i>Journal of Marine Systems</i> , 2009, 78, S17-S36.	2.1	47
23	On the origins of water masses exported along both sides of Greenland: A Lagrangian model analysis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	46
24	A Global Diagnostic of Interocean Mass Transfers. <i>Journal of Physical Oceanography</i> , 2001, 31, 1623-1632.	1.7	45
25	Two decades [1992â€“2012] of surface wind analyses based on satellite scatterometer observations. <i>Journal of Marine Systems</i> , 2017, 168, 38-56.	2.1	45
26	A Lagrangian numerical investigation of the origins and fates of the salinity maximum water in the Atlantic. <i>Journal of Geophysical Research</i> , 2002, 107, 27-1.	3.3	44
27	Improvement in airâ€“sea flux estimates derived from satellite observations. <i>International Journal of Remote Sensing</i> , 2013, 34, 5243-5261.	2.9	44
28	Large impact of Stokes drift on the fate of surface floating debris in the South Indian Basin. <i>Marine Pollution Bulletin</i> , 2019, 148, 202-209.	5.0	44
29	Fate of floating plastic debris released along the coasts in a global ocean model. <i>Marine Pollution Bulletin</i> , 2021, 165, 112116.	5.0	43
30	Water mass transformation along the Indonesian throughflow in an OGCM. <i>Ocean Dynamics</i> , 2008, 58, 289-309.	2.2	42
31	North Pacific Gyre Oscillation modulates seasonal timing and ecosystem functioning in the California Current upwelling system. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	42
32	Modeling the structure and variability of the southern Benguela upwelling using QuikSCAT wind forcing. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	41
33	Role of bathymetry in Agulhas Current configuration and behaviour. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	39
34	Correction to â€œNorth Pacific Gyre Oscillation modulates seasonal timing and ecosystem functioning in the California Current upwelling systemâ€• <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	36
35	A Surface â€œSuperconvergenceâ€• Pathway Connecting the South Indian Ocean to the Subtropical South Pacific Gyre. <i>Geophysical Research Letters</i> , 2018, 45, 1915-1922.	4.0	36
36	Radiocarbon as a thermocline proxy for the eastern equatorial Pacific. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	35

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37	Subsurface connections in the eastern tropical Pacific during La Niña 1999–2001 and El Niño 2002–2003. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	35
38	Water Mass Export from Drake Passage to the Atlantic, Indian, and Pacific Oceans: A Lagrangian Model Analysis. <i>Journal of Physical Oceanography</i> , 2005, 35, 1206-1222.	1.7	32
39	Plankton dynamics in a cyclonic eddy in the southern California current system. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5566-5588.	2.6	30
40	Tropical pathways, equatorial undercurrent variability and the 1998 La Niña. <i>Geophysical Research Letters</i> , 2002, 29, 37-1-37-4.	4.0	29
41	Origin of fine-scale wind stress curl structures in the Benguela and Canary upwelling systems. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 7931-7948.	2.6	29
42	A regional numerical ocean model of the circulation in the Bay of Biscay. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	28
43	Lagrangian Study of Tropical Instability Vortices in the Atlantic. <i>Journal of Physical Oceanography</i> , 2008, 38, 400-417.	1.7	28
44	Shortwave feedbacks and El Niño-Southern Oscillation: Forced ocean and coupled ocean-atmosphere experiments. <i>Journal of Geophysical Research</i> , 1994, 99, 25109.	3.3	27
45	Sensitivity of advective transfer times across the North Atlantic Ocean to the temporal and spatial resolution of model velocity data: Implication for European eel larval transport. <i>Dynamics of Atmospheres and Oceans</i> , 2012, 55-56, 22-44.	1.8	27
46	A Lagrangian Method to Isolate the Impacts of Mixed Layer Subduction on the Meridional Overturning Circulation in a Numerical Model. <i>Journal of Climate</i> , 2015, 28, 7503-7517.	3.2	27
47	A global diagnostic of interior ocean ventilation. <i>Geophysical Research Letters</i> , 2002, 29, 108-1-108-4.	4.0	26
48	Linking wind and interannual upwelling variability in a regional model of the southern Benguela. <i>Geophysical Research Letters</i> , 2002, 29, 41-1-41-4.	4.0	25
49	Short-term upwelling events at the western African coast related to synoptic atmospheric structures as derived from satellite observations. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 461-483.	2.6	24
50	Large Reemergence of Anthropogenic Carbon into the Ocean's Surface Mixed Layer Sustained by the Ocean's Overturning Circulation. <i>Journal of Climate</i> , 2017, 30, 8615-8631.	3.2	23
51	California Coastal Upwelling Onset Variability: Cross-Shore and Bottom-Up Propagation in the Planktonic Ecosystem. <i>PLoS ONE</i> , 2013, 8, e62281.	2.5	23
52	Tracking the origins of plastic debris across the Coral Sea: A case study from the Ouvéa Island, New Caledonia. <i>Marine Pollution Bulletin</i> , 2015, 97, 160-168.	5.0	20
53	Response of the Southern Benguela upwelling system to fine-scale modifications of the coastal wind. <i>Journal of Marine Systems</i> , 2016, 156, 46-55.	2.1	20
54	Eddy properties in the Southern California Current System. <i>Ocean Dynamics</i> , 2018, 68, 761-777.	2.2	20

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55	Diagnosing and Picturing the North Atlantic Segment of the Global Conveyor Belt by Means of an Ocean General Circulation Model. <i>Journal of Physical Oceanography</i> , 2002, 32, 1430-1451.	1.7	19
56	Lagrangian methods for flow climatologies and trajectory error assessment. <i>Ocean Modelling</i> , 2004, 6, 335-358.	2.4	19
57	Salinity changes along the upper limb of the Atlantic thermohaline circulation. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	19
58	Large- to submesoscale surface circulation and its implications on biogeochemical/biological horizontal distributions during the OUTPACE cruise (southwest Pacific). <i>Biogeosciences</i> , 2018, 15, 2411-2431.	3.3	18
59	Ocean variability over the Agulhas Bank and its dynamical connection with the southern Benguela upwelling system. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	16
60	Identification of typical scenarios for the surface Lagrangian residual circulation in the Iroise Sea. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
61	Mesoscale and Submesoscale Processes in the Southeast Atlantic and Their Impact on the Regional Thermohaline Structure. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1937-1961.	2.6	16
62	High-resolution atmospheric forcing for regional oceanic model: the Iroise Sea. <i>Ocean Dynamics</i> , 2007, 57, 375-400.	2.2	15
63	The exchange of Intermediate Water in the southeast Atlantic: Water mass transformations diagnosed from the Lagrangian analysis of a regional ocean model. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	15
64	Mixing parameterization: Impacts on rip currents and wave set-up. <i>Ocean Engineering</i> , 2014, 84, 213-227.	4.3	14
65	Quantifying tracer dynamics in moving fluids: a combined Eulerian-Lagrangian approach. <i>Frontiers in Environmental Science</i> , 2015, 3, .	3.3	13
66	Origin and fate of surface drift in the oceanic convergence zones of the eastern Pacific. <i>Geophysical Research Letters</i> , 2016, 43, 3398-3405.	4.0	13
67	Impacts of mesoscale activity on the water masses and circulation in the <sc>C</sc>oral <sc>S</sc>ea. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7277-7289.	2.6	12
68	Displacements and transformations of nitrate-rich and nitrate-poor water masses in the tropical Pacific during the 1997 El Niño. <i>Ocean Dynamics</i> , 2005, 55, 34-46.	2.2	11
69	Role of fronts in the formation of Arabian Sea barrier layers during summer monsoon. <i>Ocean Dynamics</i> , 2014, 64, 809-822.	2.2	10
70	Ocean Acidification From Below in the Tropical Pacific. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006368.	4.9	9
71	Seasonal probability dispersion maps in the Mediterranean Sea obtained from the Mediterranean Forecasting System Eulerian velocity fields. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	8
72	On the Dynamics of the Slope Current System along the West European Margin. Part II: Analytical Calculations and Numerical Simulations with Seasonal Forcing. <i>Journal of Physical Oceanography</i> , 2008, 38, 2619-2638.	1.7	6

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73	On the Dynamics of the Slope Current System along the West European Margin. Part I: Analytical Calculations and Numerical Simulations with Steady-State Forcing. <i>Journal of Physical Oceanography</i> , 2008, 38, 2597-2618.	1.7	6
74	Modulation of wave-current interactions by horizontal mixing and spatial resolution. <i>Ocean Modelling</i> , 2016, 99, 75-85.	2.4	6
75	Correction to "A global diagnostic of interior ocean ventilation" by Bruno Blanke, Sabrina Speich, Gurvan Madec, and Rudy Mouchet. <i>Geophysical Research Letters</i> , 2002, 29, 3-1.	4.0	1
76	Lagrangian water mass tracing from pseudo-Argo, model-derived salinity, tracer and velocity data: An application to Antarctic Intermediate Water in the South Atlantic Ocean. <i>Ocean Modelling</i> , 2015, 85, 56-67.	2.4	1