

Moacyr Araujo

List of Publications by Year in descending order

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107
papers

1,941
citations

279798

23
h-index

315739

38
g-index

111
all docs

111
docs citations

111
times ranked

2491
citing authors

#	ARTICLE	IF	CITATIONS
1	A Roadmap for Using the UN Decade of Ocean Science for Sustainable Development in Support of Science, Policy, and Action. <i>One Earth</i> , 2020, 2, 34-42.	6.8	191
2	Cross-Wavelet Bias Corrected by Normalizing Scales. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012, 29, 1401-1408.	1.3	128
3	The Tropical Atlantic Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	80
4	Prediction of sea surface temperature in the tropical Atlantic by support vector machines. <i>Computational Statistics and Data Analysis</i> , 2013, 61, 187-198.	1.2	78
5	PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting. <i>Earth and Space Science</i> , 2019, 6, 577-616.	2.6	63
6	Recent climatic trends in the tropical Atlantic. <i>Climate Dynamics</i> , 2014, 43, 3071-3089.	3.8	60
7	The effects of sea surface temperature anomalies on oceanic coral reef systems in the southwestern tropical Atlantic. <i>Coral Reefs</i> , 2013, 32, 441-454.	2.2	56
8	Interannual to decadal changes in the western boundary circulation in the Atlantic at 11°S. <i>Geophysical Research Letters</i> , 2015, 42, 7615-7622.	4.0	56
9	High-resolution regional ocean dynamics simulation in the southwestern tropical Atlantic. <i>Ocean Modelling</i> , 2009, 30, 256-269.	2.4	47
10	Influence of reef geometry on wave attenuation on a Brazilian coral reef. <i>Geomorphology</i> , 2016, 253, 318-327.	2.6	46
11	3D characterisation of the thermohaline structure in the southwestern tropical Atlantic derived from functional data analysis of in situ profiles. <i>Progress in Oceanography</i> , 2020, 187, 102399.	3.2	40
12	Amazon River plume influence on Western Tropical Atlantic dynamic variability. <i>Dynamics of Atmospheres and Oceans</i> , 2019, 85, 1-15.	1.8	39
13	Eutrophication effects on phytoplankton size-fractionated biomass and production at a tropical estuary. <i>Marine Pollution Bulletin</i> , 2015, 91, 537-547.	5.0	38
14	Tropical Atlantic Contributions to Strong Rainfall Variability Along the Northeast Brazilian Coast. <i>Advances in Meteorology</i> , 2015, 2015, 1-13.	1.6	37
15	Carbon dioxide emissions from estuaries of northern and northeastern Brazil. <i>Scientific Reports</i> , 2014, 4, 6164.	3.3	33
16	Seasonal and interannual variability of sea-air CO ₂ fluxes in the tropical Atlantic affected by the Amazon River plume. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1640-1655.	4.9	32
17	A study of the Brazilian Fernando de Noronha island and Rocas atoll wakes in the tropical Atlantic. <i>Ocean Modelling</i> , 2017, 111, 9-18.	2.4	32
18	Nutrients and carbon fluxes in the estuaries of major rivers flowing into the tropical Atlantic. <i>Frontiers in Marine Science</i> , 2014, 1, .	2.5	31

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19	Variações sazonais da estrutura de massas de água na plataforma continental do Amazonas e área oceânica adjacente. <i>Revista Brasileira De Geofísica</i> , 2005, 23, 145-157.	0.2	30
20	Salinity-induced mixed and barrier layers in the southwestern tropical Atlantic Ocean off the northeast of Brazil. <i>Ocean Science</i> , 2011, 7, 63-73.	3.4	28
21	The overlooked tropical oceanic CO ₂ sink. <i>Geophysical Research Letters</i> , 2016, 43, 3804-3812.	4.0	28
22	Near-surface western boundary circulation off Northeast Brazil. <i>Progress in Oceanography</i> , 2021, 190, 102475.	3.2	28
23	Seasonal changes in the mixed and barrier layers in the western Equatorial Atlantic. <i>Brazilian Journal of Oceanography</i> , 2005, 53, 83-98.	0.6	26
24	A Synoptic Assessment of the Amazon River-Ocean Continuum during Boreal Autumn: From Physics to Plankton Communities and Carbon Flux. <i>Frontiers in Microbiology</i> , 2017, 8, 1358.	3.5	26
25	Zooplankton From a Reef System Under the Influence of the Amazon River Plume. <i>Frontiers in Microbiology</i> , 2018, 9, 355.	3.5	25
26	Nutrient and phytoplankton biomass in the Amazon River shelf waters. <i>Anais Da Academia Brasileira De Ciências</i> , 2008, 80, 703-717.	0.8	23
27	An Integrated All-Atlantic Ocean Observing System in 2030. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	23
28	Net Heterotrophy in the Amazon Continental Shelf Changes Rapidly to a Sink of CO ₂ in the Outer Amazon Plume. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	22
29	Circulation of the thermocline salinity maximum waters off the Northern Brazil as inferred from in situ measurements and numerical results. <i>Annales Geophysicae</i> , 2009, 27, 1861-1873.	1.6	21
30	Spatial and Temporal Variability of the CO ₂ Fluxes in a Tropical, Highly Urbanized Estuary. <i>Estuaries and Coasts</i> , 2013, 36, 1054-1072.	2.2	21
31	Distribution of CO ₂ parameters in the Western Tropical Atlantic Ocean. <i>Dynamics of Atmospheres and Oceans</i> , 2016, 73, 47-60.	1.8	19
32	Amazon Plume Salinity Response to Ocean Teleconnections. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	19
33	Quantitative Ecological Risk Assessment of Industrial Accidents: The Case of Oil Ship Transportation in the Coastal Tropical Area of Northeastern Brazil. <i>Human and Ecological Risk Assessment (HERA)</i> , 2013, 19, 1457-1476.	3.4	18
34	A source of CO ₂ to the atmosphere throughout the year in the Maranhense continental shelf (2°30'S). <i>Journal of Geophysical Research</i> , 2010, 115, F00000.	1.8	18
35	Ocean-Atmosphere Feedback during Extreme Rainfall Events in Eastern Northeast Brazil. <i>Journal of Applied Meteorology and Climatology</i> , 2018, 57, 1211-1229.	1.5	18
36	Observações hidrográficas e resultados de modelagem no espalhamento sazonal e espacial da pluma de água Amazônica. <i>Acta Amazonica</i> , 2009, 39, 361-369.	0.7	16

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37	Surface Circulation and Vertical Structure of Upper Ocean Variability Around Fernando de Noronha Archipelago and Rocas Atoll During Spring 2015 and Fall 2017. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	16
38	Phytoplankton biomass dynamics and environmental variables around the Rocas Atoll Biological Reserve, South Atlantic. <i>Brazilian Journal of Oceanography</i> , 2015, 63, 443-454.	0.6	15
39	The sea-air CO ₂ net fluxes in the South Atlantic Ocean and the role played by Agulhas eddies. <i>Progress in Oceanography</i> , 2019, 170, 40-52.	3.2	15
40	An Ecological Model for Quantitative Risk Assessment for Schistosomiasis: The Case of a Patchy Environment in the Coastal Tropical Area of Northeastern Brazil. <i>Risk Analysis</i> , 2014, 34, 831-846.	2.7	14
41	Physical processes that drive the seasonal evolution of the Southwestern Tropical Atlantic Warm Pool. <i>Dynamics of Atmospheres and Oceans</i> , 2015, 72, 1-11.	1.8	14
42	The socio-ecological Nexus+ approach used by the Brazilian Research Network on Global Climate Change. <i>Current Opinion in Environmental Sustainability</i> , 2019, 39, 62-70.	6.3	14
43	Amazon river plume influence on planktonic decapods in the tropical Atlantic. <i>Journal of Marine Systems</i> , 2020, 212, 103428.	2.1	14
44	Oceanic Indices for Forecasting Seasonal Rainfall over the Northern Part of Brazilian Northeast. <i>American Journal of Climate Change</i> , 2016, 05, 261-274.	0.9	14
45	Intraseasonal variability of the North Brazil Undercurrent forced by remote winds. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	13
46	Spatial and temporal variability of CO ₂ fluxes in tropical estuarine systems near areas of high population density in Brazil. <i>Regional Environmental Change</i> , 2015, 15, 619-630.	2.9	13
47	Copepod distribution and production in a Mid-Atlantic Ridge archipelago. <i>Anais Da Academia Brasileira De Ciencias</i> , 2014, 86, 1719-1733.	0.8	12
48	Energy balance and time-scales of mixing and stratification in the Jaboatão estuary, NE-Brazil. <i>Revista Brasileira De Oceanografia</i> , 1999, 47, 145-154.	0.2	12
49	Seasonal variability of the Amazon river plume during Revizee program. <i>Tropical Oceanography</i> , 2010, 38, .	0.0	12
50	SST Indexes in the Tropical South Atlantic for Forecasting Rainy Seasons in Northeast Brazil. <i>Atmosphere</i> , 2019, 10, 335.	2.3	11
51	The Effect of Agulhas Eddies on Absorption and Transport of Anthropogenic Carbon in the South Atlantic Ocean. <i>Climate</i> , 2019, 7, 84.	2.8	11
52	Summer and winter Atlantic Niño: connections with ENSO and implications. <i>Climate Dynamics</i> , 2020, 55, 2939-2956.	3.8	11
53	Seasonal variability of the Atlantic Meridional Overturning Circulation at 11°S inferred from bottom pressure measurements. <i>Ocean Science</i> , 2021, 17, 265-284.	3.4	11
54	Nutrient budgets (C, N and P) and trophic dynamics of a Brazilian tropical estuary: Barra das Jangadas. <i>Anais Da Academia Brasileira De Ciencias</i> , 2011, 83, 441-456.	0.8	11

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55	Variability of CO ₂ fugacity at the western edge of the tropical Atlantic Ocean from the 8°N to 38°W PIRATA buoy. <i>Dynamics of Atmospheres and Oceans</i> , 2017, 78, 1-13.	1.8	10
56	Intra- and Inter-Annual Variability of North Brazil Current Rings Using Angular Momentum Eddy Detection and Tracking Algorithm: Observations From 1993 to 2016. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015921.	2.6	10
57	Tidal Turbulence and Eddy-Viscosity in Coastal Waters at Northeastern Brazil. <i>Journal of Coastal Research</i> , 2005, 211, 18-27.	0.3	9
58	Variability and trends of carbon parameters at a time series in the eastern tropical Atlantic. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 30305.	1.6	9
59	On the variability in the CO ₂ system and water productivity in the western tropical Atlantic off North and Northeast Brazil. <i>Journal of Marine Systems</i> , 2019, 189, 62-77.	2.1	9
60	Nutrient Input and CO ₂ Flux of a Tropical Coastal Fluvial System with High Population Density in the Northeast Region of Brazil. <i>Journal of Water Resource and Protection</i> , 2013, 05, 362-375.	0.8	9
61	Flow-topography interactions in the western tropical Atlantic boundary off Northeast Brazil. <i>Journal of Marine Systems</i> , 2022, 227, 103690.	2.1	9
62	High bacterial carbon demand and low growth efficiency at a tropical hypereutrophic estuary: importance of dissolved organic matter remineralization. <i>Brazilian Journal of Oceanography</i> , 2017, 65, 382-391.	0.6	8
63	Seasonal and Interannual Mixed Layer Heat Budget Variability in the Western Tropical Atlantic From Argo Floats (2007-2012). <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5298-5322.	2.6	8
64	Vertical Turbulent Cooling of the Mixed Layer in the Atlantic ITCZ and Trade Wind Regions. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015529.	2.6	8
65	Title is missing!. <i>Hydrobiologia</i> , 2002, 475/476, 229-237.	2.0	7
66	Two-layer stratified flows over pronounced obstacles at low-to-intermediate Froude numbers. <i>Physics of Fluids</i> , 2009, 21, 044102.	4.0	7
67	The instantaneous transport of inorganic and organic material in a highly polluted tropical estuary. <i>Marine and Freshwater Research</i> , 2013, 64, 562.	1.3	7
68	Alkalinity, inorganic carbon and CO ₂ flux variability during extreme rainfall years (2010-2011) in two polluted tropical estuaries NE Brazil. <i>Brazilian Journal of Oceanography</i> , 2018, 66, 115-130.	0.6	7
69	Séries temporales de variables hidrobiológicas en un estuario tropical (Brasil). <i>Revista De Biología Marina Y Oceanografía</i> , 2009, 44, .	0.2	6
70	Energy balance and time-scales of mixing and stratification in the Jaboatão estuary, NE-Brazil. <i>Brazilian Journal of Oceanography</i> , 1999, 47, .	0.6	6
71	Impact of the new equation of state of seawater (TEOS-10) on the estimates of water mass mixture and meridional transport in the Atlantic Ocean. <i>Progress in Oceanography</i> , 2018, 162, 13-24.	3.2	5
72	Trophic dynamics (Dissolved Inorganic Nitrogen-DIN and Dissolved Inorganic Phosphorus-DIP) in tropical urban estuarine systems during periods of high and low river discharge rates. <i>Anais Da Academia Brasileira De Ciências</i> , 2019, 91, e20180244.	0.8	5

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73	Ocean Dynamics and Topographic Upwelling Around the Aracati Seamount - North Brazilian Chain From in situ Observations and Modeling Results. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	5
74	Seasonal and Intraseasonal Variability of Wave Climate on the NE Brazilian Coast using a Nautical Radar System. <i>Journal of Coastal Research</i> , 2016, 75, 927-931.	0.3	4
75	Plankton carbon metabolism and air-water CO_2 fluxes at a hypereutrophic tropical estuary. <i>Marine Ecology</i> , 2017, 38, e12423.	1.1	4
76	Dynamics of Primary Productivity and Oceanographic Parameters under Influence of the Amazon River Plume. <i>Open Journal of Ecology</i> , 2018, 08, 590-606.	1.0	4
77	On the influence of longitudinal mean flow over Langmuir circulations. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2000, 38, 141-149.	1.7	3
78	Langmuir circulations and enhanced turbulence beneath wind-waves. <i>Ocean Modelling</i> , 2001, 3, 109-126.	2.4	3
79	Instabilities developed in stratified flows over pronounced obstacles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 386, 681-685.	2.6	3
80	The first occurrence of the Order Mormonilloida (Copepoda) in the Tropical Southwest Atlantic Ocean. <i>Anais Da Academia Brasileira De Ciencias</i> , 2015, 87, 233-237.	0.8	3
81	A morphological anomaly in <i>Clausocalanus mastigophorus</i> (Claus, 1863) (Copepoda, Calanoida) from St. Peter and St. Paul Archipelago. <i>Brazilian Journal of Biology</i> , 2014, 74, 728-729.	0.9	3
82	Hydro-thermodynamic dataset of the Amazon River Plume and North Brazil Current retroflexion. <i>Data in Brief</i> , 2022, 40, 107705.	1.0	3
83	Distribution of Nutrients and Changes in Phytoplankton Composition in a Tropical Mesotidal Estuary, Northeastern Brazil. <i>Open Journal of Ecology</i> , 2017, 07, 460-494.	1.0	2
84	Influence of underwater hydrodynamics on oil and gas blowouts off Amazon River Mouth. <i>Tropical Oceanography</i> , 2018, 46, .	0.0	2
85	SIMULATION OF OIL SPILLS NEAR A TROPICAL ISLAND IN THE EQUATORIAL SOUTHWEST ATLANTIC. <i>Tropical Oceanography</i> , 2019, 47, .	0.0	2
86	T-S and hydrodynamical structures within the deltaic regions and continental platforms adjacent to two northeastern Brazilian rivers. <i>Regional Studies in Marine Science</i> , 2022, 51, 102219.	0.7	2
87	Monthly anomaly database of atmospheric and oceanic parameters in the tropical Atlantic ocean. <i>Data in Brief</i> , 2022, 41, 107969.	1.0	2
88	Hydrodynamic and TS Structure Dataset of the São Francisco and Parnaíba Brazilian Rivers. <i>Latin American Data in Science</i> , 2022, 2, 13-20.	0.2	2
89	Energy Balance and Mixing Timescales in a Stirring Tropical Estuary, Itamaracá, Brazil. <i>Journal of Coastal Research</i> , 2008, 1, 151-160.	0.3	1
90	Cell biovolume and carbon biomass of phytoplankton in degraded tropical estuaries in Northeastern Brazil. <i>Regional Studies in Marine Science</i> , 2020, 40, 101522.	0.7	1

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91	Phytoplankton cell size in an urban tropical estuarine system in Northeast Brazil. <i>Regional Studies in Marine Science</i> , 2021, 43, 101659.	0.7	1
92	Long-term water quality conditions and trends in 12 tropical coastal rivers in Northeast Brazil. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 308.	2.7	1
93	Bayesian update of the parameters of probability distributions for risk assessment in a two-level hybrid probabilistic-possibilistic uncertainty framework. , 2013, , 3295-3302.		1
94	Seasonal and interannual variability of the southern south Equatorial Current bifurcation and meridional transport along the eastern brazilian edge.. <i>Tropical Oceanography</i> , 2011, 39, .	0.0	1
95	Determination of oil horizontal spreading coefficients in seawater using analytical methods and digital image processing techniques. , 0, , .		0
96	Modeling Subsurface Gas Release in Tropical and Shallow Waters: Comparison with Field Experiments off Brazil's Northeast Coast. <i>Human and Ecological Risk Assessment (HERA)</i> , 2014, 20, 150-173.	3.4	0
97	Caracterizaci3n de los flujos de CO2 y los par4metros asociados con el sistema de carbonato en el estuario R4o Formoso, Brasil. <i>Revista De Biolog4a Marina Y Oceanograf4a</i> , 2015, 50, 603-609.	0.2	0
98	An Analytic Approach to Model the Tidal Circulation in a Double-inlet Estuary. <i>Journal of Coastal Research</i> , 2016, 75, 223-227.	0.3	0
99	DISTANCE SPLINES APPROACH TO IRREGULARLY DISTRIBUTED PHYSICAL DATA FROM THE BRAZILIAN NORTHEASTERN COAST. , 2006, , .		0
100	Field study of a simulated subsurface gas blowout in tropical and shallow water along the Brazilian Coast.. <i>Tropical Oceanography</i> , 2012, 40, .	0.0	0
101	Emergency plans modeling: Toward an assessment tool. , 2013, , 2381-2388.		0
102	Alcalinidade total normalizada na Zona Econ4mica Exclusiva da regi4o Norte (Brasil). <i>Scientia Plena</i> , 2016, 12, .	0.2	0
103	Qual universidade p4blica 4 requerida para defesa dos valores republicanos?. <i>Estudos Universit4rios</i> , 2021, 38, 17.	0.1	0
104	Database of oceanographic anomalies and atmospheric surface fluxes for the study of climate change in the Brazilian Northeast.. <i>Latin American Data in Science</i> , 2022, 2, .	0.2	0
105	The mysterious oil spill in the northeastern coast of Brazil: tracking offshore seawater and the need for improved vessel facilities. <i>Ocean and Coastal Research</i> , 0, 70, .	0.6	0
106	High-resolution hydrodynamics and TS structure database of the Brazilian continental shelf and adjacent waters. <i>Data in Brief</i> , 2022, 42, 108210.	1.0	0
107	A comparative study of total alkalinity and total inorganic carbon near tropical Atlantic coastal regions. <i>Journal of Coastal Conservation</i> , 2022, 26, .	1.6	0