

Alex C Bastos

List of Publications by Year in descending order

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82
papers

2,564
citations

236925

25
h-index

214800

47
g-index

82
all docs

82
docs citations

82
times ranked

2687
citing authors

#	ARTICLE	IF	CITATIONS
1	An extensive reef system at the Amazon River mouth. <i>Science Advances</i> , 2016, 2, e1501252.	10.3	235
2	Rhodolith Beds Are Major CaCO ₃ Bio-Factories in the Tropical South West Atlantic. <i>PLoS ONE</i> , 2012, 7, e35171.	2.5	230
3	Neotropical forest expansion during the last glacial period challenges refuge hypothesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1008-1013.	7.1	181
4	Spatial patterns of benthic megahabitats and conservation planning in the Abrolhos Bank. <i>Continental Shelf Research</i> , 2013, 70, 109-117.	1.8	167
5	Dynamics of Coral Reef Benthic Assemblages of the Abrolhos Bank, Eastern Brazil: Inferences on Natural and Anthropogenic Drivers. <i>PLoS ONE</i> , 2013, 8, e54260.	2.5	141
6	Microplastics and attached microorganisms in sediments of the Vitória bay estuarine system in SE Brazil. <i>Ocean and Coastal Management</i> , 2019, 169, 247-253.	4.4	86
7	Baseline Assessment of Mesophotic Reefs of the Vitória-Trindade Seamount Chain Based on Water Quality, Microbial Diversity, Benthic Cover and Fish Biomass Data. <i>PLoS ONE</i> , 2015, 10, e0130084.	2.5	81
8	Shelf morphology as an indicator of sedimentary regimes: A synthesis from a mixed siliciclastic-carbonate shelf on the eastern Brazilian margin. <i>Journal of South American Earth Sciences</i> , 2015, 63, 125-136.	1.4	68
9	Sustained mass coral bleaching (2016-2017) in Brazilian turbid-zone reefs: taxonomic, cross-shelf and habitat-related trends. <i>Coral Reefs</i> , 2019, 38, 801-813.	2.2	62
10	Extensive Rhodolith Beds Cover the Summits of Southwestern Atlantic Ocean Seamounts. <i>Journal of Coastal Research</i> , 2012, 279, 261-269.	0.3	60
11	Arsenic enrichment in sediment on the eastern continental shelf of Brazil. <i>Science of the Total Environment</i> , 2017, 607-608, 304-316.	8.0	53
12	Traditional Ecological Knowledge and the mapping of benthic marine habitats. <i>Journal of Environmental Management</i> , 2013, 115, 241-250.	7.8	51
13	Modern sedimentary processes along the Doce river adjacent continental shelf. <i>Brazilian Journal of Geology</i> , 2015, 45, 635-644.	0.7	47
14	Sedimentary processes, bedforms and facies, associated with a coastal headland: Portland Bill, Southern UK. <i>Marine Geology</i> , 2002, 187, 235-258.	2.1	46
15	Carbon Sequestration in a Large Hydroelectric Reservoir: An Integrative Seismic Approach. <i>Ecosystems</i> , 2014, 17, 430-441.	3.4	45
16	Buracas: Novel and unusual sinkhole-like features in the Abrolhos Bank. <i>Continental Shelf Research</i> , 2013, 70, 118-125.	1.8	43
17	Short-term dynamics and maintenance processes of headland-associated sandbanks: Shambles Bank, English Channel, UK. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 59, 33-47.	2.1	39
18	Bryozoans are Major Modern Builders of South Atlantic Oddly Shaped Reefs. <i>Scientific Reports</i> , 2018, 8, 9638.	3.3	38

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19	Macroalgal composition and community structure of the largest rhodolith beds in the world. <i>Marine Biodiversity</i> , 2016, 46, 407-420.	1.0	36
20	The effects of a tailing dam failure on the sedimentation of the eastern Brazilian inner shelf. <i>Continental Shelf Research</i> , 2020, 205, 104172.	1.8	35
21	Tropical rhodolith beds are a major and belittled reef fish habitat. <i>Scientific Reports</i> , 2021, 11, 794.	3.3	34
22	Along-shelf changes in mixed carbonate-siliciclastic sedimentation patterns. <i>Continental Shelf Research</i> , 2019, 187, 103964.	1.8	31
23	BaMBa: towards the integrated management of Brazilian marine environmental data. <i>Database: the Journal of Biological Databases and Curation</i> , 2015, 2015, bav088.	3.0	30
24	Mesophotic ecosystems of the unique South Atlantic atoll are composed by rhodolith beds and scattered consolidated reefs. <i>Marine Biodiversity</i> , 2016, 46, 933-936.	1.0	29
25	Sedimentary processes over an intertidal flat: A field investigation at Hythe flats, Southampton Water (UK). <i>Marine Geology</i> , 2007, 241, 117-136.	2.1	28
26	Seabed Mapping: A Brief History from Meaningful Words. <i>Geosciences (Switzerland)</i> , 2020, 10, 273.	2.2	27
27	The Modern Mixed Carbonate-Siliciclastic Abrolhos Shelf: Implications For A Mixed Depositional Model. <i>Journal of Sedimentary Research</i> , 2015, 85, 124-139.	1.6	26
28	Structure and composition of rhodoliths from the Amazon River mouth, Brazil. <i>Journal of South American Earth Sciences</i> , 2018, 84, 149-159.	1.4	25
29	Long-term effects of competition and environmental drivers on the growth of the endangered coral <i>Mussismilia braziliensis</i> (Verrill, 1867). <i>PeerJ</i> , 2018, 6, e5419.	2.0	24
30	Caracterizaç�o morfol�gica do litoral Norte Fluminense, RJ, Brasil. <i>Revista Brasileira De Oceanografia</i> , 2000, 48, 41-60.	0.2	23
31	Sinkhole-like structures as bioproductivity hotspots in the Abrolhos Bank. <i>Continental Shelf Research</i> , 2013, 70, 126-134.	1.8	23
32	Sponges and fish facilitate succession from rhodolith beds to reefs. <i>Bulletin of Marine Science</i> , 2014, 91, 45-46.	0.8	23
33	Geomorphometric Seabed Classification and Potential Megahabitat Distribution in the Amazon Continental Margin. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	21
34	Quartz grain assessment for reconstructing the coastal palaeoenvironment. <i>Journal of South American Earth Sciences</i> , 2016, 70, 353-367.	1.4	20
35	Seabed Morphology and Sedimentary Regimes defining Fishing Grounds along the Eastern Brazilian Shelf. <i>Geosciences (Switzerland)</i> , 2018, 8, 91.	2.2	20
36	Structure of Rhodolith Beds and Surrounding Habitats at the Doce River Shelf (Brazil). <i>Diversity</i> , 2020, 12, 75.	1.7	19

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37	Morphology and internal structure of sand shoals and sandbanks off the Dorset coast, English Channel. <i>Sedimentology</i> , 2003, 50, 1105-1122.	3.1	18
38	Origin and sedimentary evolution of sinkholes (buracas) in the Abrolhos continental shelf, Brazil. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 462, 101-111.	2.3	18
39	Characterization of buried inundated peat on seismic (Chirp) data, inferred from core information. <i>Archaeological Prospection</i> , 2007, 14, 261-272.	2.2	17
40	Mid- to Late-Holocene estuarine infilling processes studied by radiocarbon dates, high resolution seismic and biofacies at Vitoria Bay, Espirito Santo, Southeastern Brazil. <i>Anais Da Academia Brasileira De Ciencias</i> , 2010, 82, 761-770.	0.8	17
41	BURIAL RATE DETERMINES HOLOCENE RHODOLITH DEVELOPMENT ON THE BRAZILIAN SHELF. <i>Palaaios</i> , 2018, 33, 464-477.	1.3	17
42	The use of Benthic Terrain Modeler (BTM) in the characterization of continental shelf habitats. <i>Geo-Marine Letters</i> , 2020, 40, 1087-1097.	1.1	17
43	Reef Mapping Using Different Seabed Automatic Classification Tools. <i>Geosciences (Switzerland)</i> , 2020, 10, 72.	2.2	17
44	Field observations of SPM using ADV, ADP, and OBS in a shallow estuarine system with low SPM concentration. <i>Vitoria Bay, SE Brazil. Ocean Dynamics</i> , 2011, 61, 273-283.	2.2	16
45	Carbonate Production by Benthic Communities on Shallow Coralgall Reefs of Abrolhos Bank, Brazil. <i>PLoS ONE</i> , 2016, 11, e0154417.	2.5	16
46	Holocene reef growth in the tropical southwestern Atlantic: Evidence for sea level and climate instability. <i>Quaternary Science Reviews</i> , 2019, 218, 365-377.	3.0	16
47	Heterogeneity of rhodolith beds expressed in backscatter data. <i>Marine Geology</i> , 2020, 423, 106136.	2.1	15
48	Decadal (2006-2018) dynamics of Southwestern Atlantic's largest turbid zone reefs. <i>PLoS ONE</i> , 2021, 16, e0247111.	2.5	15
49	Growing industrialization and poor conservation planning challenge natural resources' management in the Amazon Shelf off Brazil. <i>Marine Policy</i> , 2021, 128, 104465.	3.2	15
50	The impact of trace metals in marine sediments after a tailing dam failure: the Fundão dam case (Brazil). <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	15
51	A habitat-based approach to predict impacts of marine protected areas on fishers. <i>Conservation Biology</i> , 2018, 32, 1096-1106.	4.7	14
52	Spatial and temporal dynamics of the abundance of crustose calcareous algae on the southernmost coral reefs of the western Atlantic (Abrolhos Bank, Brazil). <i>Algae</i> , 2018, 33, 85-99.	2.3	14
53	Morphology and sedimentology of the shelf-upper slope transition in the Abrolhos continental shelf (east Brazilian margin). <i>Geo-Marine Letters</i> , 2019, 39, 117-134.	1.1	13
54	The Influence of Articulated and Disarticulated Cockle Shells on the Erosion of a Cohesive Bed. <i>Journal of Coastal Research</i> , 2007, 236, 1443-1451.	0.3	12

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55	Growing at the limit: Reef growth sensitivity to climate and oceanographic changes in the South Western Atlantic. <i>Global and Planetary Change</i> , 2021, 201, 103479.	3.5	11
56	Bryozoan framework composition in the oddly shaped reefs from Abrolhos Bank, Brazil, southwestern Atlantic: taxonomy and ecology. <i>Zootaxa</i> , 2018, 4483, 155-186.	0.5	9
57	Modern sedimentation processes in a wave-dominated coastal embayment: Esp�rito Santo Bay, southeast Brazil. <i>Geo-Marine Letters</i> , 2015, 35, 23-36.	1.1	8
58	Traditional knowledge of Fishers versus an environmental disaster from mining waste in Central Brazil. <i>Marine Policy</i> , 2020, 120, 104129.	3.2	8
59	Coral growth bands recorded trace elements associated with the Fund�o dam collapse. <i>Science of the Total Environment</i> , 2022, 807, 150880.	8.0	8
60	Applying a Multi-Method Framework to Analyze the Multispectral Acoustic Response of the Seafloor. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	3.5	8
61	Occurrence of storm-generated bedforms along the inner continental shelf: Southeastern Brazil. <i>Brazilian Journal of Oceanography</i> , 2010, 58, 45-56.	0.6	7
62	Seabed sediment transport pathway investigations: review of scientific approach and methodologies. <i>Geological Society Special Publication</i> , 2007, 274, 127-146.	1.3	6
63	Sedimentological Sectorization of An Estuarine System In A Regressive Coast, Southeast Brazil. <i>Journal of Sedimentary Research</i> , 2013, 83, 994-1003.	1.6	6
64	Sedimentary, Geochemical and Micropaleontological Responses to Sea Level Variations in the Vitoria Estuary, Esp�rito Santo. <i>Radiocarbon</i> , 2018, 60, 583-600.	1.8	6
65	Copepod community structure after a mining dam disaster in the Southwestern Atlantic Ocean. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 254, 107325.	2.1	6
66	Morphological evidences of eustatic events in the last 14,000 years in a far-field site, East-Southeast Brazilian continental shelf. <i>Marine Geology</i> , 2021, 442, 106659.	2.1	6
67	Long-term temporal and spatial patterns in bioeroding sponge distribution at the Abrolhos Bank, Brazil, Southwestern Atlantic. <i>Marine Ecology</i> , 2019, 40, e12531.	1.1	5
68	Wave-driven sediment mobility on the Eastern Brazilian shelf under different weather systems. <i>Geo-Marine Letters</i> , 2021, 41, 1.	1.1	5
69	Bathymetric and regional benthic foraminiferal distribution on the Esp�rito Santo Basin slope, Brazil (SW Atlantic). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2022, 181, 103688.	1.4	5
70	Structure and Composition of Rhodolith Beds from the Sergipe-Alagoas Basin (NE Brazil). <i>Journal of Marine Research</i> , 2022, 80, 1000000.	1.7	5
71	Sedimentological and morphological evidences of Meltwater Pulse 1B in the Southwestern Atlantic Margin. <i>Marine Geology</i> , 2022, 450, 106850.	2.1	5
72	Spatial distribution patterns of coral reefs in the Abrolhos region (Brazil, South Atlantic ocean). <i>Continental Shelf Research</i> , 2022, 246, 104808.	1.8	5

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73	Submerged reefs in the Abrolhos Shelf: morphology and habitat distribution. , 2020, , 519-532.		4
74	Submerged Palaeolandscapes of the Southern Hemisphere (SPLOSH) – What is emerging from the Southern Hemisphere. World Archaeology, 2022, 54, 6-28.	1.1	4
75	Paleoenvironmental Records Influenced by Sea Level Variations During the Holocene in the Vitória Bay Region, Espírito Santo State, Brazil. Radiocarbon, 2017, 59, 1087-1102.	1.8	3
76	Sedimentological signatures of river-shelf processes in a wave-dominated delta front. Journal of South American Earth Sciences, 2022, 115, 103761.	1.4	2
77	Reply to Raposo do Amaral et al.: The “Atlantis Forest hypothesis” adds a new dimension to Atlantic Forest biogeography. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2099-E2100.	7.1	1
78	Late Quaternary evolution model for a coastal embayment with low sediment input and bedrock control (southeast Brazil). Estuarine, Coastal and Shelf Science, 2020, 243, 106905.	2.1	1
79	Environmental controls on holocene reef development along the eastern brazilian margin. Coral Reefs, 2021, 40, 1321-1337.	2.2	1
80	The Holocene palaeoenvironmental evolution of Vitória Bay, Espírito Santo, Brazil. Palynology, 2019, 43, 383-393.	1.5	0
81	A dark side of cleaning symbiosis: manned submersible observations. Marine Biodiversity, 2019, 49, 1037-1041.	1.0	0
82	Fifty years of the Brazilian Marine Geology and Geophysics Program (PGGM). Geo-Marine Letters, 2020, 40, 819-820.	1.1	0