

Frank Dehairs

List of Publications by Year in descending order

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52
papers

2,092
citations

279701

23
h-index

233338

45
g-index

53
all docs

53
docs citations

53
times ranked

3157
citing authors

#	ARTICLE	IF	CITATIONS
1	Sources of organic carbon in mangrove sediments: variability and possible ecological implications. <i>Hydrobiologia</i> , 2003, 495, 33-39.	1.0	228
2	Strong biological controls on Sr/Ca ratios in aragonitic marine bivalve shells. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	184
3	Inorganic and organic carbon biogeochemistry in the Gautami Godavari estuary (Andhra Pradesh, India). <i>Journal of Geophysical Research: Biogeosciences</i> , 2003, 17, n/a-n/a.	1.9	144
4	Relevance of silicon isotopes to Si-nutrient utilization and Si-source assessment in Antarctic waters. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	1.9	127
5	Dynamics of organic and inorganic carbon across contiguous mangrove and seagrass systems (Gazi Bay, Kenya). <i>Journal of Geophysical Research: Biogeosciences</i> , 2003, 17, n/a-n/a.	3.3	113
6	Annual cyclicity in high-resolution stable carbon and oxygen isotope ratios in the wood of the mangrove tree <i>Rhizophora mucronata</i> . <i>Plant, Cell and Environment</i> , 2004, 27, 1525-1536.	2.8	103
7	Biogeochemistry of the Tana estuary and delta (northern Kenya). <i>Limnology and Oceanography</i> , 2007, 52, 46-59.	1.6	90
8	Synchronous barium peaks in high-resolution profiles of calcite and aragonite marine bivalve shells. <i>Geo-Marine Letters</i> , 2008, 28, 351-358.	0.5	82
9	Revisiting the distribution of oceanic N ₂ fixation and estimating diazotrophic contribution to marine production. <i>Nature Communications</i> , 2019, 10, 831.	5.8	72
10	Coastal ocean and shelf-sea biogeochemical cycling of trace elements and isotopes: lessons learned from GEOTRACES. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160076.	1.6	56
11	²³⁴ Th deficit and excess in the Southern Ocean during spring 2001: Particle export and remineralization. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	46
12	A new automated setup for stable isotope analysis of dissolved organic carbon. <i>Limnology and Oceanography: Methods</i> , 2006, 4, 216-226.	1.0	40
13	Spring phytoplankton assemblages in the Southern Ocean between Australia and Antarctica. <i>Polar Biology</i> , 2007, 31, 77-88.	0.5	40
14	Regional variation of spring N-uptake and new production in the Southern Ocean. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	37
15	N uptake conditions during summer in the Subantarctic and Polar Frontal Zones of the Australian sector of the Southern Ocean. <i>Journal of Geophysical Research</i> , 2002, 107, 3-1.	3.3	32
16	Mesopelagic carbon remineralization during the European Iron Fertilization Experiment. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	32
17	Sediment and carbon fluxes along a longitudinal gradient in the lower Tana River (Kenya). <i>Journal of Geophysical Research: Biogeosciences</i> , 2014, 119, 1340-1353.	1.3	31
18	Euechinoidea and Cidaroidea respond differently to ocean acidification. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2014, 174, 45-55.	0.8	29

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19	A high resolution transect of dissolved barium in the Southern Ocean. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	27
20	Ammonium Transformation in a Nitrogen-Rich Tidal Freshwater Marsh. <i>Biogeochemistry</i> , 2006, 80, 289-298.	1.7	27
21	Ontogenetic and sexual characterization of the feeding habits of franciscanas, <i>Pontoporia blainvillei</i> , based on tooth dentin carbon and nitrogen stable isotopes. <i>Marine Mammal Science</i> , 2016, 32, 1115-1137.	0.9	27
22	Zooplankton-based $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ isoscapes from the outer continental shelf and slope in the subtropical western South Atlantic. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 159, 103235.	0.6	27
23	Monitoring polycyclic aromatic hydrocarbons in the Northeast Aegean Sea using <i>Posidonia oceanica</i> seagrass and synthetic passive samplers. <i>Marine Pollution Bulletin</i> , 2014, 87, 338-344.	2.3	24
24	Influence of the bordering shelves on nutrient distribution in the Arctic halocline inferred from water column nitrate isotopes. <i>Limnology and Oceanography</i> , 2018, 63, 2154-2170.	1.6	23
25	Decoding nonlinear growth rates in biogenic environmental archives. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	1.0	22
26	Silicon uptake and supply during a Southern Ocean iron fertilization experiment (EIFEX) tracked by Si isotopes. <i>Limnology and Oceanography</i> , 2011, 56, 147-160.	1.6	22
27	Barium and carbon fluxes in the Canadian Arctic Archipelago. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	21
28	Significant mixed layer nitrification in a natural iron-fertilized bloom of the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1929-1943.	1.9	21
29	Particulate Barite and acantharians in the Southern Ocean during the European Iron Fertilization Experiment (EIFEX). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	18
30	Evidence of high N_2 fixation rates in the temperate northeast Atlantic. <i>Biogeosciences</i> , 2019, 16, 999-1017.	1.3	18
31	Skin $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ reveal spatial and temporal patterns of habitat and resource use by free-ranging odontocetes from the southwestern Atlantic Ocean. <i>Marine Biology</i> , 2020, 167, 1.	0.7	18
32	Nitrogen fixation in the eastern Atlantic reaches similar levels in the Southern and Northern Hemisphere. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 587-601.	1.0	17
33	Biological responses of the marine diatom <i>Chaetoceros socialis</i> to changing environmental conditions: A laboratory experiment. <i>PLoS ONE</i> , 2017, 12, e0188615.	1.1	15
34	Sea Ice CO_2 Dynamics Across Seasons: Impact of Processes at the Interfaces. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015807.	1.0	14
35	The biogeochemical role of a microbial biofilm in sea ice. <i>Elementa</i> , 2021, 9, .	1.1	13
36	$\delta^{15}\text{N}$ dynamics of ammonium and particulate nitrogen in a temperate eutrophic estuary. <i>Biogeochemistry</i> , 2007, 82, 1-14.	1.7	12

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37	Influence of hydraulics on the uptake of ammonium by two freshwater plants. <i>Freshwater Biology</i> , 2013, 58, 2452-2463.	1.2	12
38	Combining isotopic analysis of bulk-skin and individual amino acids to investigate the trophic position and foraging areas of multiple cetacean species in the western South Atlantic. <i>Environmental Research</i> , 2021, 201, 111610.	3.7	12
39	Particulate Trace Element Export in the North Atlantic (GEOTRACES GA01 Transect, GEOVIDE Cruise). <i>ACS Earth and Space Chemistry</i> , 2020, 4, 2185-2204.	1.2	11
40	Water mass distributions in the Southern Ocean derived from a parametric analysis of mixing water masses. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	10
41	Introduction to the French GEOTRACES North Atlantic Transect (GA01): GEOVIDE cruise. <i>Biogeosciences</i> , 2018, 15, 7097-7109.	1.3	10
42	Carbon and Hydrogen Isotope Signatures of Dissolved Methane in the Scheldt Estuary. <i>Estuaries and Coasts</i> , 2021, 44, 137-146.	1.0	10
43	On the Elimination of Bias Averaging-Errors in Proxy Records. <i>Mathematical Geosciences</i> , 2009, 41, 129-144.	1.4	9
44	Annual particulate matter and diatom export in a high nutrient, low chlorophyll area of the Southern Ocean. <i>Polar Biology</i> , 2018, 41, 25-40.	0.5	8
45	The effect of melting treatments on the assessment of biomass and nutrients in sea ice (Saroma-ko) Tj ETQq1 1 0.784314 rgBT /Over 0.5	0.5	8
46	Importance of N ₂ -Fixation on the Productivity at the North-Western Azores Current/Front System, and the Abundance of Diazotrophic Unicellular Cyanobacteria. <i>PLoS ONE</i> , 2016, 11, e0150827.	1.1	8
47	Nitrate Supply Routes and Impact of Internal Cycling in the North Atlantic Ocean Inferred From Nitrate Isotopic Composition. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006887.	1.9	6
48	Strong Margin Influence on the Arctic Ocean Barium Cycle Revealed by Pan-Arctic Synthesis. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	6
49	n-Alkanes and stable C, N isotopic compositions as identifiers of organic matter sources in <i>Posidonia oceanica</i> meadows of Alexandroupolis Gulf, NE Greece. <i>Marine Pollution Bulletin</i> , 2015, 99, 346-355.	2.3	3
50	Organic Carbon in the Ocean's Twilight Zone: Controls on Organic Carbon Export and Twilight Zone Remineralization; Brussels, Belgium, 28-30 May 2008. <i>Eos</i> , 2008, 89, 351-351.	0.1	1
51	Does essential trace elements influence the export production in oceans?. <i>Diqiu Huaxue</i> , 2006, 25, 276-276.	0.5	0
52	Periodic Time-Series Modeling of Environmental Proxy Records with Guaranteed Positive Growth Rate Estimation. <i>Mathematical Geosciences</i> , 2011, 43, 635-662.	1.4	0