

Gerhard Fischer

List of Publications by Year in descending order

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80
papers

5,428
citations

94433

37
h-index

91884

69
g-index

91
all docs

91
docs citations

91
times ranked

4189
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of temperature and productivity proxies based on long-chain alkane-1, mid-chain diols at test: a 5-year sediment trap record from the Mauritanian upwelling. <i>Biogeosciences</i> , 2022, 19, 1587-1610.	3.3	3
2	High Resolution Mapping of PO14C in the Northwest African Upwelling System Off Mauretania. , 2021, , .		0
3	A 2-decade (1988-2009) record of diatom fluxes in the Mauritanian coastal upwelling: impact of low-frequency forcing and a two-step shift in the species composition. <i>Biogeosciences</i> , 2021, 18, 1873-1891.	3.3	6
4	Carbonate fluxes by coccolithophore species between NW Africa and the Caribbean: Implications for the biological carbon pump. <i>Limnology and Oceanography</i> , 2021, 66, 3190-3208.	3.1	9
5	A Novel Measurement-Based Model for Calculating Diffusive Fluxes Across Substrate-Water Interfaces of Marine Aggregates, Sediments and Biofilms. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	0
6	Determinants of Planktonic Foraminifera Calcite Flux: Implications for the Prediction of Intra- and Inter-Annual Pelagic Carbonate Budgets. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006748.	4.9	6
7	Enemy Aliens: Internment and the Homefront War in Australia, 1914-1920. <i>Anglica</i> , 2021, , 107-139.	0.1	0
8	Remembering Mudrooroo (1938-2019). <i>Anglica</i> , 2021, , 5-19.	0.1	0
9	Seasonal flux patterns and carbon transport from low-oxygen eddies at the Cape Verde Ocean Observatory: lessons learned from a time series sediment trap study (2009-2016). <i>Biogeosciences</i> , 2021, 18, 6479-6500.	3.3	2
10	Long-Term Changes of Particle Flux in the Canary Basin Between 1991 and 2009 and Comparison to Sediment Trap Records Off Mauritania. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	7
11	Tracks in the Snow - Advantage of Combining Optical Methods to Characterize Marine Particles and Aggregates. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	15
12	Flux variability of phyto- and zooplankton communities in the Mauritanian coastal upwelling between 2003 and 2008. <i>Biogeosciences</i> , 2020, 17, 187-214.	3.3	19
13	Changes in the Dust-Influenced Biological Carbon Pump in the Canary Current System: Implications From a Coastal and an Offshore Sediment Trap Record Off Cape Blanc, Mauritania. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1100-1128.	4.9	15
14	Seasonality of archaeal lipid flux and GDGT-based thermometry in sinking particles of high-latitude oceans: Fram Strait (79°N) and Antarctic Polar Front (50°S). <i>Biogeosciences</i> , 2019, 16, 2247-2268.	3.3	17
15	The ballasting effect of Saharan dust deposition on aggregate dynamics and carbon export: Aggregation, settling, and scavenging potential of marine snow. <i>Limnology and Oceanography</i> , 2018, 63, 1386-1394.	3.1	76
16	Spatiotemporal variation of vertical particle fluxes and modelled chlorophyll a standing stocks in the Benguela Upwelling System. <i>Journal of Marine Systems</i> , 2018, 180, 59-75.	2.1	8
17	The effects of temperature, salinity, and the carbonate system on Mg/Ca in <i>Globigerinoides ruber</i> (white): A global sediment trap calibration. <i>Earth and Planetary Science Letters</i> , 2018, 482, 607-620.	4.4	82
18	TEX86 in sinking particles in three eastern Atlantic upwelling regimes. <i>Organic Geochemistry</i> , 2018, 124, 151-163.	1.8	8

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19	Shift in the species composition of the diatom community in the eutrophic Mauritanian coastal upwelling: Results from a multi-year sediment trap experiment (2003–2010). <i>Progress in Oceanography</i> , 2017, 159, 31-44.	3.2	15
20	Seasonal provenance changes in present-day Saharan dust collected in and off Mauritania. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10163-10193.	4.9	16
21	Coccolithophore fluxes in the open tropical North Atlantic: influence of thermocline depth, Amazon water, and Saharan dust. <i>Biogeosciences</i> , 2017, 14, 4577-4599.	3.3	22
22	Bathypelagic particle flux signatures from a suboxic eddy in the oligotrophic tropical North Atlantic: production, sedimentation and preservation. <i>Biogeosciences</i> , 2016, 13, 3203-3223.	3.3	9
23	Deep ocean mass fluxes in the coastal upwelling off Mauritania from 1988 to 2012: variability on seasonal to decadal timescales. <i>Biogeosciences</i> , 2016, 13, 3071-3090.	3.3	38
24	Featured L&O E-Lecture: The Ocean's Biological Carbon Pump as Part of the Global Carbon Cycle. <i>Limnology and Oceanography Bulletin</i> , 2016, 25, 22-23.	0.4	3
25	Environmental factors controlling the seasonal variability in particle size distribution of modern Saharan dust deposited off Cape Blanc. <i>Aeolian Research</i> , 2016, 22, 165-179.	2.7	27
26	Eddies as trigger for diatom productivity in the open-ocean Northeast Atlantic. <i>Progress in Oceanography</i> , 2016, 147, 38-48.	3.2	13
27	Open ocean dead zones in the tropical North Atlantic Ocean. <i>Biogeosciences</i> , 2015, 12, 2597-2605.	3.3	79
28	Time series of in-situ particle properties and sediment trap fluxes in the coastal upwelling filament off Cape Blanc, Mauritania. <i>Progress in Oceanography</i> , 2015, 137, 1-11.	3.2	42
29	A four-year record of U ²³⁷ and TEX ₈₆ -derived sea surface temperature estimates from sinking particles in the filamentous upwelling region off Cape Blanc, Mauritania. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 97, 67-79.	1.4	24
30	Distribution of intact and core tetraether lipids in water column profiles of suspended particulate matter off Cape Blanc, NW Africa. <i>Organic Geochemistry</i> , 2014, 72, 1-13.	1.8	59
31	The Ocean's Biological Carbon pump as part of the global Carbon Cycle. <i>Limnology and Oceanography E-Lectures</i> , 2014, 4, 1-51.	0.6	4
32	Millennial variability and long-term changes of the diatom production in the eastern equatorial Pacific during the last glacial cycle. <i>Paleoceanography</i> , 2011, 26, .	3.0	21
33	SEASONAL VARIABILITY OF THE ORGANIC-WALLED DINOFLLAGELLATE CYST PRODUCTION IN THE COASTAL UPWELLING REGION OFF CAPE BLANC (MAURITANIA): A FIVE-YEAR SURVEY ¹ . <i>Journal of Phycology</i> , 2010, 46, 202-215.	2.3	54
34	High resolution profiles of vertical particulate organic matter export off Cape Blanc, Mauritania: Degradation processes and ballasting effects. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 771-784.	1.4	164
35	Sinking rates and ballast composition of particles in the Atlantic Ocean: implications for the organic carbon fluxes to the deep ocean. <i>Biogeosciences</i> , 2009, 6, 85-102.	3.3	134
36	Offshore advection of particles within the Cape Blanc filament, Mauritania: Results from observational and modelling studies. <i>Progress in Oceanography</i> , 2009, 83, 322-330.	3.2	49

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37	Impact of particle aggregation on vertical fluxes of organic matter. Progress in Oceanography, 2009, 83, 331-341.	3.2	36
38	Mineral ballast and particle settling rates in the coastal upwelling system off NW Africa and the South Atlantic. International Journal of Earth Sciences, 2009, 98, 281-298.	1.8	44
39	In-situ sinking speed measurements of marine snow aggregates acquired with a settling chamber mounted to the Cherokee ROV. , 2009, , .		32
40	Ballast, sinking velocity, and apparent diffusivity within marine snow and zooplankton fecal pellets: Implications for substrate turnover by attached bacteria. Limnology and Oceanography, 2008, 53, 1878-1886.	3.1	203
41	Organic-walled dinoflagellate cyst production in relation to upwelling intensity and lithogenic influx in the Cape Blanc region (off north-west Africa). Phycological Research, 2005, 53, 97-112.	1.6	27
42	Sensitivity of planktic foraminifera to sea surface temperature and export production as derived from sediment trap data. Marine Micropaleontology, 2005, 55, 75-105.	1.2	144
43	Water column particulate organic carbon modeled fluxes in the ice-frequented Southern Ocean. Journal of Marine Systems, 2005, 56, 133-149.	2.1	9
44	Northwest African upwelling and its effect on offshore organic carbon export to the deep sea. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	54
45	Particle fluxes in the ocean: comparison of sediment trap data with results from inverse modeling. Journal of Marine Systems, 2003, 39, 167-183.	2.1	57
46	Depth-dependent elemental compositions of particulate organic matter (POM) in the ocean. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	127
47	Inverse Modeling of Particulate Organic Carbon Fluxes in the South Atlantic. , 2003, , 1-19.		10
48	C37-Alkenones as Paleotemperature Tool: Fundamentals Based on Sediment Traps and Surface Sediments from the South Atlantic Ocean. , 2003, , 167-193.		9
49	Seasonal variability of $\delta^{15}N$ in sinking particles in the Benguela upwelling region. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 377-394.	1.4	31
50	Organic carbon, biogenic silica and diatom fluxes in the marginal winter sea-ice zone and in the Polar Front Region: interannual variations and differences in composition. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1721-1745.	1.4	72
51	Seasonal productivity dynamics in the pelagic central Benguela System inferred from the flux of carbonate and silicate organisms. Journal of Marine Systems, 2002, 37, 259-278.	2.1	57
52	Basin-wide particulate carbon flux in the Atlantic Ocean: Regional export patterns and potential for atmospheric CO ₂ sequestration. Global Biogeochemical Cycles, 2001, 15, 845-862.	4.9	186
53	A 4-year sediment trap record of alkenones from the filamentous upwelling region off Cape Blanc, NW Africa and a comparison with distributions in underlying sediments. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 1877-1903.	1.4	72
54	A review of the Si cycle in the modern ocean: recent progress and missing gaps in the application of biogenic opal as a paleoproductivity proxy. Global and Planetary Change, 2000, 26, 317-365.	3.5	621

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55	Siliceous phytoplankton of the western equatorial Atlantic: sediment traps and surface sediments. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 1939-1959.	1.4	29
56	Organic carbon fluxes in the Atlantic and the Southern Ocean: relationship to primary production compiled from satellite radiometer data. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 1961-1997.	1.4	89
57	The $\delta^{15}\text{N}$ of nitrate in the Southern Ocean: Nitrogen cycling and circulation in the ocean interior. Journal of Geophysical Research, 2000, 105, 19599-19614.	3.3	247
58	Seasonal and interannual pigment concentration in the Canary Islands region from CZCS data and comparison with observations from the ESTOC. International Journal of Remote Sensing, 1999, 20, 1419-1433.	2.9	40
59	Seasonal impact of mineral dust on deep-ocean particle flux in the eastern subtropical Atlantic Ocean. Marine Geology, 1999, 159, 241-252.	2.1	54
60	Stable Isotopes of Pteropod Shells as Recorders of Sub-Surface Water Conditions: Comparison to the Record of <i>G. ruber</i> and to Measured Values. , 1999, , 191-206.		11
61	Variability in Export Production Documented by Downward Fluxes and Species Composition of Marine Planktic Diatoms: Observations from the Tropical and Equatorial Atlantic. , 1999, , 365-392.		35
62	Lithogenic particle fluxes and grain size distributions in the deep ocean off northwest Africa: Implications for seasonal changes of aeolian dust input and downward transport. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 1289-1337.	1.4	121
63	The $\delta^{15}\text{N}$ of nitrate in the southern ocean: Consumption of nitrate in surface waters. Global Biogeochemical Cycles, 1999, 13, 1149-1166.	4.9	285
64	Latitudinal $\delta^{13}\text{C}_{\text{org}}$ variations in sinking matter and sediments from the South Atlantic: effects of anthropogenic CO_2 and implications for paleo- PCO_2 reconstructions. Journal of Marine Systems, 1998, 17, 471-495.	2.1	46
65	Deep water particle flux in the Canary Island region: seasonal trends in relation to long-term satellite derived pigment data and lateral sources. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 1451-1466.	1.4	101
66	Anthropogenic CO_2 in Southern Ocean surface waters: evidence from stable organic carbon isotopes. Terra Nova, 1997, 9, 153-157.	2.1	19
67	Distinct year-to-year particle flux variations off Cape Blanc during 1988-1991: Relation to $\delta^{18}\text{O}$ -deduced sea-surface temperatures and trade winds. Journal of Marine Research, 1996, 54, 73-98.	0.3	95
68	Diatom and silicoflagellate fluxes at the Walvis Ridge: An environment influenced by coastal upwelling in the Benguela system. Journal of Marine Research, 1996, 54, 991-1016.	0.3	41
69	Short-term sedimentation pulses recorded with a fluorescence sensor and sediment traps at 9-m depth in the Canary basin. Limnology and Oceanography, 1996, 41, 1354-1359.	3.1	35
70	Seasonal diatom fluxes in the Guinea Basin and their relationships to trade winds, hydrography and upwelling events. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 859-878.	1.4	49
71	Seasonal sedimentation and stable isotope records of pteropods off Cap Blanc. Marine Geology, 1993, 113, 305-320.	2.1	28
72	Seasonal patterns of vertical particle flux in equatorial and coastal upwelling areas of the eastern Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 1613-1645.	1.4	197

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73	Stable carbon isotope composition, depth distribution and fate of macroalgae from the Antarctic Peninsula region. <i>Polar Biology</i> , 1992, 12, 341.	1.2	55
74	Stable carbon isotope ratios of plankton carbon and sinking organic matter from the Atlantic sector of the Southern Ocean. <i>Marine Chemistry</i> , 1991, 35, 581-596.	2.3	124
75	Annual primary production and export flux in the Southern Ocean from sediment trap data. <i>Marine Chemistry</i> , 1991, 35, 597-613.	2.3	164
76	Short-term variations in particulate matter sedimentation off Kapp Norvegia, Weddell Sea, Antarctica: relation to water mass advection, ice cover, plankton biomass and feeding activity. <i>Polar Biology</i> , 1991, 11, 185.	1.2	134
77	Seasonal variability of particle flux in the Weddell Sea and its relation to ice cover. <i>Nature</i> , 1988, 335, 426-428.	27.8	249
78	Seasonal particle flux in the Bransfield Strait, Antarctica. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988, 35, 891-898.	1.5	219
79	Sampling, Preparation and Analysis of Marine Particulate Matter. <i>Geophysical Monograph Series</i> , 0, , 391-397.	0.1	31
80	Seasonal and inter-annual dynamics of coccolithophore fluxes from the upwelling region off Cape Blanc, NW Africa. <i>Journal of Micropalaeontology</i> , 0, , 2014-024.	3.6	3