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	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
2	The Î´15N of nitrate in the southern ocean: Consumption of nitrate in surface waters. Global Biogeochemical Cycles, 1999, 13, 1149-1166.	4.9	285
3	Seasonal variability of particle flux in the Weddell Sea and its relation to ice cover. Nature, 1988, 335, 426-428.	27.8	249
4	The Î´15N 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
5	Seasonal particle flux in the Bransfield Strait, Antartica. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 891-898.	1.5	219
6	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
7	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
8	Basin-wide particulate carbon flux in the Atlantic Ocean: Regional export patterns and potential for atmospheric CO2sequestration. Global Biogeochemical Cycles, 2001, 15, 845-862.	4.9	186
9	Annual primary production and export flux in the Southern Ocean from sediment trap data. Marine Chemistry, 1991, 35, 597-613.	2.3	164
10	High resolution profiles of vertical particulate organic matter export off Cape Blanc, Mauritania: Degradation processes and ballasting effects. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 771-784.	1.4	164
11	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
12	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. Polar Biology, 1991, 11, 185.	1.2	134
13	Sinking rates and ballast composition of particles in the Atlantic Ocean: implications for the organic carbon fluxes to the deep ocean. Biogeosciences, 2009, 6, 85-102.	3.3	134
14	Depth-dependent elemental compositions of particulate organic matter (POM) in the ocean. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	127
15	Stable carbon isotope ratios of plankton carbon and sinking organic matter from the Atlantic sector of the Southern Ocean. Marine Chemistry, 1991, 35, 581-596.	2.3	124
16	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
17	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
18	Distinct year-to-year particle flux variations off Cape Blanc during 1988â€“1991: Relation to Î´¹⁸O-deduced sea-surface temperatures and trade winds. Journal of Marine Research, 1996, 54, 73-98.	0.3	95

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19	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
20	The effects of temperature, salinity, and the carbonate system on Mg/Ca in Globigerinoides ruber (white): A global sediment trap calibration. Earth and Planetary Science Letters, 2018, 482, 607-620.	4.4	82
21	Open ocean dead zones in the tropical North Atlantic Ocean. Biogeosciences, 2015, 12, 2597-2605.	3.3	79
22	The ballasting effect of Saharan dust deposition on aggregate dynamics and carbon export: Aggregation, settling, and scavenging potential of marine snow. Limnology and Oceanography, 2018, 63, 1386-1394.	3.1	76
23	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
24	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
25	Distribution of intact and core tetraether lipids in water column profiles of suspended particulate matter off Cape Blanc, NW Africa. Organic Geochemistry, 2014, 72, 1-13.	1.8	59
26	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
27	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
28	Stable carbon isotope composition, depth distribution and fate of macroalgae from the Antarctic Peninsula region. Polar Biology, 1992, 12, 341.	1.2	55
29	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
30	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
31	SEASONAL VARIABILITY OF THE ORGANIC-WALLED DINOFLAGELLATE CYST PRODUCTION IN THE COASTAL UPWELLING REGION OFF CAPE BLANC (MAURITANIA): A FIVE-YEAR SURVEY1. Journal of Phycology, 2010, 46, 202-215.	2.3	54
32	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
33	Offshore advection of particles within the Cape Blanc filament, Mauritania: Results from observational and modelling studies. Progress in Oceanography, 2009, 83, 322-330.	3.2	49
34	Latitudinal Î´13Corg variations in sinking matter and sediments from the South Atlantic: effects of anthropogenic CO2 and implications for paleo-PCO2 reconstructions. Journal of Marine Systems, 1998, 17, 471-495.	2.1	46
35	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
36	Time series of in-situ particle properties and sediment trap fluxes in the coastal upwelling filament off Cape Blanc, Mauritania. Progress in Oceanography, 2015, 137, 1-11.	3.2	42

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37	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
38	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
39	Deep ocean mass fluxes in the coastal upwelling off Mauritania from 1988 to 2012: variability on seasonal to decadal timescales. Biogeosciences, 2016, 13, 3071-3090.	3.3	38
40	Impact of particle aggregation on vertical fluxes of organic matter. Progress in Oceanography, 2009, 83, 331-341.	3.2	36
41	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
42	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
43	In-situ sinking speed measurements of marine snow aggregates acquired with a settling chamber mounted to the Cherokee ROV. , 2009, , .		32
44	Seasonal variability of Î´15N in sinking particles in the Benguela upwelling region. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 377-394.	1.4	31
45	Sampling, Preparation and Analysis of Marine Particulate Matter. Geophysical Monograph Series, 0, , 391-397.	0.1	31
46	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
47	Seasonal sedimentation and stable isotope records of pteropods off Cap Blanc. Marine Geology, 1993, 113, 305-320.	2.1	28
48	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
49	Environmental factors controlling the seasonal variability in particle size distribution of modern Saharan dust deposited off Cape Blanc. Aeolian Research, 2016, 22, 165-179.	2.7	27
50	A four-year record of U Kâ€² 37 - and TEX 86 -derived sea surface temperature estimates from sinking particles in the filamentous upwelling region off Cape Blanc, Mauritania. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 97, 67-79.	1.4	24
51	Coccolithophore fluxes in the open tropical North Atlantic: influence of thermocline depth, Amazon water, and Saharan dust. Biogeosciences, 2017, 14, 4577-4599.	3.3	22
52	Millennial variability and longâ€term changes of the diatom production in the eastern equatorial Pacific during the last glacial cycle. Paleoceanography, 2011, 26, .	3.0	21
53	Anthropogenic CO 2 in Southern Ocean surface waters: evidence from stable organic carbon isotopes. Terra Nova, 1997, 9, 153-157.	2.1	19
54	Flux variability of phyto- and zooplankton communities in the Mauritanian coastal upwelling between 2003 and 2008. Biogeosciences, 2020, 17, 187-214.	3.3	19

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55	Seasonality of archaeal lipid flux and GDGT-based thermometry in sinking particles of high-latitude oceans: Fram Strait (79Â°â€‰N) and Antarctic Polar Front (50Â°â€‰S). Biogeosciences, 2019, 16, 2247-2268.	3.3	17
56	Seasonal provenance changes in present-day Saharan dust collected in and off Mauritania. Atmospheric Chemistry and Physics, 2017, 17, 10163-10193.	4.9	16
57	Shift in the species composition of the diatom community in the eutrophic Mauritanian coastal upwelling: Results from a multi-year sediment trap experiment (2003â€“2010). Progress in Oceanography, 2017, 159, 31-44.	3.2	15
58	Changes in the Dustâ€influenced Biological Carbon Pump in the Canary Current System: Implications From a Coastal and an Offshore Sediment Trap Record Off Cape Blanc, Mauritania. Global Biogeochemical Cycles, 2019, 33, 1100-1128.	4.9	15
59	Tracks in the Snow â€“ Advantage of Combining Optical Methods to Characterize Marine Particles and Aggregates. Frontiers in Marine Science, 2020, 7, .	2.5	15
60	Eddies as trigger for diatom productivity in the open-ocean Northeast Atlantic. Progress in Oceanography, 2016, 147, 38-48.	3.2	13
61	Stable Isotopes of Pteropod Shells as Recorders of Sub-Surface Water Conditions: Comparison to the Record of G. ruber and to Measured Values. , 1999, , 191-206.		11
62	Inverse Modeling of Particulate Organic Carbon Fluxes in the South Atlantic. , 2003, , 1-19.		10
63	Water column particulate organic carbon modeled fluxes in the ice-frequented Southern Ocean. Journal of Marine Systems, 2005, 56, 133-149.	2.1	9
64	Bathypelagic particle flux signatures from a suboxic eddy in the oligotrophic tropical North Atlantic: production, sedimentation and preservation. Biogeosciences, 2016, 13, 3203-3223.	3.3	9
65	Carbonate fluxes by coccolithophore species between <scp>NW</scp> Africa and the Caribbean: Implications for the biological carbon pump. Limnology and Oceanography, 2021, 66, 3190-3208.	3.1	9
66	C37-Alkenones as Paleotemperature Tool: Fundamentals Based on Sediment Traps and Surface Sediments from the South Atlantic Ocean. , 2003, , 167-193.		9
67	Spatiotemporal variation of vertical particle fluxes and modelled chlorophyll a standing stocks in the Benguela Upwelling System. Journal of Marine Systems, 2018, 180, 59-75.	2.1	8
68	TEX86 in sinking particles in three eastern Atlantic upwelling regimes. Organic Geochemistry, 2018, 124, 151-163.	1.8	8
69	Long-Term Changes of Particle Flux in the Canary Basin Between 1991 and 2009 and Comparison to Sediment Trap Records Off Mauritania. Frontiers in Earth Science, 2020, 8, .	1.8	7
70	A 2-decadeÂ(1988â€“2009) record of diatom fluxes in the Mauritanian coastal upwelling: impact of low-frequency forcing and a two-step shift in the species composition. Biogeosciences, 2021, 18, 1873-1891.	3.3	6
71	Determinants of Planktonic Foraminifera Calcite Flux: Implications for the Prediction of Intraâ€and Interâ€Annual Pelagic Carbonate Budgets. Global Biogeochemical Cycles, 2021, 35, e2020GB006748.	4.9	6
72	The Ocean's Biological Carbon pump as part of the global Carbon Cycle. Limnology and Oceanography E-Lectures, 2014, 4, 1-51.	0.6	4

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73	Seasonal and inter-annual dynamics of coccolithophore fluxes from the upwelling region off Cape Blanc, NW Africa. Journal of Micropalaeontology, 0, , 2014-024.	3.6	3
74	Featured L&O E-Lecture: The Ocean's Biological Carbon Pump as Part of the Global Carbon Cycle. Limnology and Oceanography Bulletin, 2016, 25, 22-23.	0.4	3
75	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. Biogeosciences, 2022, 19, 1587-1610.	3.3	3
76	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 (2009â€“2016). Biogeosciences, 2021, 18, 6479-6500.	3.3	2
77	High Resolution Mapping of PO14C in the Northwest African Upwelling System Off Mauretania. , 2021, , .		0
78	A Novel Measurement-Based Model for Calculating Diffusive Fluxes Across Substrate-Water Interfaces of Marine Aggregates, Sediments and Biofilms. Frontiers in Marine Science, 2021, 8, .	2.5	0
79	Enemy Aliens: Internment and the Homefront War in Australia, 1914â€“1920. Anglica, 2021, , 107-139.	0.1	0
80	Remembering Mudrooroo (1938â€“2019). Anglica, 2021, , 5-19.	0.1	0