Geraldine Sarthou

List of Publications by Year
in descending order

82 papers	5,416 citations	109264 35 h-index	88593 70 g-index
101 all docs	101 docs citations	101 times ranked	4926 citing authors

#	Article	IF	Citations
1	Effect of natural iron fertilization on carbon sequestration in the Southern Ocean. Nature, 2007, 446, 1070-1074.	13.7	707
2	Growth physiology and fate of diatoms in the ocean: a review. Journal of Sea Research, 2005, 53, 25-42.	0.6	639
3	Hydrothermal contribution to the oceanic dissolved iron inventory. Nature Geoscience, 2010, 3, 252-256.	5.4	353
4	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	1.4	257
5	Developing Standards for Dissolved Iron in Seawater. Eos, 2007, 88, 131.	0.1	237
6	Atmospheric iron deposition and sea-surface dissolved iron concentrations in the eastern Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2003, 50, 1339-1352.	0.6	172
7	Distribution of dissolved iron during the natural iron-fertilization experiment KEOPS (Kerguelen) Tj ETQq1 1 0.784314 rgBT /Overlock	0.6	144
8	The fate of biogenic iron during a phytoplankton bloom induced by natural fertilisation: Impact of copepod grazing. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 734-751.	0.6	117
9	Grazing-induced Changes in Cell Wall Silicification in a Marine Diatom. Protist, 2007, 158, 21-28.	0.6	104
10	Titan: A new facility for ultraclean sampling of trace elements and isotopes in the deep oceans in the international Geotraces program. Marine Chemistry, 2008, 111, 4-21.	0.9	104
11	Impact of high Saharan dust inputs on dissolved iron concentrations in the Mediterranean Sea. Geophysical Research Letters, 2002, 29, 17-1-17-4.	1.5	100
12	Discovery of new hydrothermal vent sites in Bransfield Strait, Antarctica. Earth and Planetary Science Letters, 2001, 193, 395-407.	1.8	86
13	Availability of iron and major nutrients for phytoplankton in the northeast Atlantic Ocean. Limnology and Oceanography, 2004, 49, 2095-2104.	1.6	79
14	Revisiting the distribution of oceanic N2 fixation and estimating diazotrophic contribution to marine production. Nature Communications, 2019, 10, 831.	5.8	72
15	Measurement of the isotopic composition of dissolved iron in the open ocean. Geophysical Research Letters, 2008, 35, .	1.5	70
16	Seasonal variations of iron concentrations in the Ligurian Sea and iron budget in the Western Mediterranean Sea. Marine Chemistry, 2001, 74, 115-129.	0.9	69
17	Iron biogeochemistry across marine systems â€“ progress from the past decade. Biogeosciences, 2010, 7, 1075-1097.	1.3	69
18	Regional trends in the fractional solubility of Fe and other metals from North Atlantic aerosols (GEOTRACES cruises GA01 and GA03) following a two-stage leach. Biogeosciences, 2018, 15, 2271-2288.	1.3	68

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19	Contrasted geographical distribution of N₂ fixation rates and nifH phylotypes in the Coral and Solomon Seas (southwestern Pacific) during austral winter conditions. Global Biogeochemical Cycles, 2015, 29, 1874-1892.	1.9	66
20	An iron budget during the natural iron fertilisation experiment KEOPS (Kerguelen Islands, Southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	64
21	Distribution of dissolved aluminium in the high atmospheric input region of the subtropical waters of the North Atlantic Ocean. Marine Chemistry, 2004, 88, 85-101.	0.9	61
22	Iron budgets for three distinct biogeochemical sites around the Kerguelen Archipelago (Southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	56
23	Fe-binding dissolved organic ligands near the Kerguelen Archipelago in the Southern Ocean (Indian) Tj ETQq1 1 0.784314 rgBT /Overl	0.6	55
24	Physical speciation of iron in the Atlantic sector of the Southern Ocean along a transect from the subtropical domain to the Weddell Sea Gyre. Journal of Geophysical Research, 2010, 115, .	3.3	55
25	Co-variance of dissolved Fe-binding ligands with phytoplankton characteristics in the Canary Basin. Marine Chemistry, 2006, 102, 276-290.	0.9	52
26	New method for the determination of extracellular production of superoxide by marine phytoplankton using the chemiluminescence probes MCLA and redâ€CLA. Limnology and Oceanography: Methods, 2009, 7, 682-692.	1.0	52
27	Deep dissolved iron profiles in the eastern North Atlantic in relation to water masses. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	43
28	Quantification of trace element atmospheric deposition fluxes to the Atlantic Ocean (>40Â°N;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Papers, 2017, 119, 34-49.	0.6	43
29	Sourcing the iron in the naturally fertilised bloom around the Kerguelen Plateau: particulate trace metal dynamics. Biogeosciences, 2015, 12, 739-755.	1.3	42
30	Iron organic speciation determination in rainwater using cathodic stripping voltammetry. Analytica Chimica Acta, 2012, 736, 45-54.	2.6	41
31	Advances in the offline trace metal extraction of Mn, Co, Ni, Cu, Cd, and Pb from open ocean seawater samples with determination by sector field ICP-MS analysis. Analytical Methods, 2014, 6, 2837-2847.	1.3	38
32	Trace element behaviour at cold seeps and the potential export of dissolved iron to the ocean. Earth and Planetary Science Letters, 2014, 404, 376-388.	1.8	38
33	Shipboard analytical intercomparison of dissolved iron in surface waters along a northâ€“south transect of the Atlantic Ocean. Marine Chemistry, 2003, 84, 19-34.	0.9	37
34	Influence of atmospheric inputs on the iron distribution in the subtropical North-East Atlantic Ocean. Marine Chemistry, 2007, 104, 186-202.	0.9	37
35	Trace element and isotope deposition across the airâ€“sea interface: progress and research needs. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160190.	1.6	37
36	A call for refining the role of humic-like substances in the oceanic iron cycle. Scientific Reports, 2020, 10, 6144.	1.6	37

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37	Labile Fe(II) concentrations in the Atlantic sector of the Southern Ocean along a transect from the subtropical domain to the Weddell Sea Gyre. Biogeosciences, 2011, 8, 2461-2479.	1.3	35
38	Hot vents in an ice-cold ocean: Indications for phase separation at the southernmost area of hydrothermal activity, Bransfield Strait, Antarctica. Earth and Planetary Science Letters, 2001, 193, 381-394.	1.8	34
39	Pervasive sources of isotopically light zinc in the North Atlantic Ocean. Earth and Planetary Science Letters, 2020, 539, 116216.	1.8	31
40	High-Precision Determination of the Isotopic Composition of Dissolved Iron in Iron Depleted Seawater by Double Spike Multicollector-ICPMS. Analytical Chemistry, 2010, 82, 7103-7111.	3.2	30
41	Mercury distribution and transport in the North Atlantic Ocean along the GEOTRACES-GA01 transect. Biogeosciences, 2018, 15, 2309-2323.	1.3	29
42	Resupply of mesopelagic dissolved iron controlled by particulate iron composition. Nature Geoscience, 2019, 12, 995-1000.	5.4	29
43	Distribution of size fractionated dissolved iron in the Canary Basin. Marine Environmental Research, 2010, 70, 46-55.	1.1	28
44	Allelochemicals from Alexandrium minutum induce rapid inhibition of metabolism and modify the membranes from Chaetoceros muelleri. Algal Research, 2018, 35, 508-518.	2.4	28
45	Atmospheric deposition fluxes over the Atlantic Ocean: a GEOTRACES case study. Biogeosciences, 2019, 16, 1525-1542.	1.3	28
46	Effects of an iron-light co-limitation on the elemental composition (Si, C, N) of the marine diatoms <I>Thalassiosira oceanica</I> and <I>Ditylum brightwellii</I>. Biogeosciences, 2010, 7, 657-669.	1.3	27
47	The ²²⁶Raâ€“Ba relationship in the North Atlantic during GEOTRACES-GA01. Biogeosciences, 2018, 15, 3027-3048.	1.3	25
48	A rapid quantitative fluorescence-based bioassay to study allelochemical interactions from Alexandrium minutum. Environmental Pollution, 2018, 242, 1598-1605.	3.7	25
49	Contribution of resuspended sedimentary particles to dissolved iron and manganese in the ocean: An experimental study. Chemical Geology, 2019, 511, 389-415.	1.4	25
50	High variability in dissolved iron concentrations in the vicinity of the Kerguelen Islands (Southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	24
51	Dissolved iron in the North Atlantic Ocean and Labrador Sea along the GEOVIDE section (GEOTRACES) Tj ETQq1 1 0.784314 rgBT /Ov	1.3	24
52	Impact of environmental factors on in situ determination of iron in seawater by flow injection analysis. Marine Chemistry, 2005, 97, 347-356.	0.9	23
53	High variability of particulate organic carbon export along the North Atlantic GEOTRACES section GA01 as deduced from ²³⁴Th fluxes. Biogeosciences, 2018, 15, 6417-6437.	1.3	23
54	Tracing water masses with ¹²⁹I and ²³⁶U in the subpolar North Atlantic along the GEOTRACES GA01 section. Biogeosciences, 2018, 15, 5545-5564.	1.3	22

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55	Sources, cycling and transfer of mercury in the Labrador Sea (Geotraces-Geovide cruise). Marine Chemistry, 2018, 198, 64-69.	0.9	21
56	Seasonal Depletion of the Dissolved Iron Reservoirs in the Subâ€Antarctic Zone of the Southern Atlantic Ocean. Geophysical Research Letters, 2019, 46, 4386-4395.	1.5	21
57	The transcriptional regulation of the glyoxylate cycle in <scp>SAR</scp>11 in response to iron fertilization in the <scp>S</scp>outhern <scp>O</scp>cean. Environmental Microbiology Reports, 2015, 7, 427-434.	1.0	20
58	Inter-laboratory study for the certification of trace elements in seawater certified reference materials NASS-7 and CASS-6. Analytical and Bioanalytical Chemistry, 2018, 410, 4469-4479.	1.9	20
59	Net and gross incorporation of nitrogen by marine copepods fed on 15N-labelled diatoms: Methodology and trophic studies. Journal of Experimental Marine Biology and Ecology, 2007, 352, 295-305.	0.7	19
60	Dissolved Pb and Pb isotopes in the North Atlantic from the GEOVIDE transect (GEOTRACES GA-01) and their decadal evolution. Biogeosciences, 2018, 15, 4995-5014.	1.3	19
61	Aluminium in the North Atlantic Ocean and the Labrador Sea (GEOTRACES GA01 section): roles of continental inputs and biogenic particle removal. Biogeosciences, 2018, 15, 5271-5286.	1.3	19
62	Evidence of high N₂ fixation rates in the temperate northeast Atlantic. Biogeosciences, 2019, 16, 999-1017.	1.3	18
63	Effects of copper on the dinoflagellate Alexandrium minutum and its allelochemical potency. Aquatic Toxicology, 2019, 210, 251-261.	1.9	18
64	The Solomon Sea: its circulation, chemistry, geochemistry and biology explored during two oceanographic cruises. Elementa, 2017, 5, .	1.1	17
65	Particulate barium tracing of significant mesopelagic carbon remineralisation in the North Atlantic. Biogeosciences, 2018, 15, 2289-2307.	1.3	16
66	Iron complexation by phenolic ligands in seawater. Chemical Geology, 2019, 511, 380-388.	1.4	16
67	Dissolved greenhouse gases (nitrous oxide and methane) associated with the naturally iron-fertilized Kerguelen region (KEOPS 2 cruise) in the Southern Ocean. Biogeosciences, 2015, 12, 1925-1940.	1.3	15
68	Inputs and processes affecting the distribution of particulate iron in the North Atlantic along the GEOVIDE (GEOTRACES GA01) section. Biogeosciences, 2019, 16, 1563-1582.	1.3	14
69	Processes Driving Iron and Manganese Dispersal From the TAG Hydrothermal Plume (Mid-Atlantic) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	14
70	Contribution of Electroactive Humic Substances to the Ironâ€Binding Ligands Released During Microbial Remineralization of Sinking Particles. Geophysical Research Letters, 2020, 47, e2019GL086685.	1.5	14
71	Effect of the diel cycle on production of dimethylsulfoniopropionate in batch cultures of Emiliania huxleyi. Aquatic Microbial Ecology, 2007, 48, 73-81.	0.9	14
72	Composition of freshwater in the spring of 2014 on the southern Labrador shelf and slope. Journal of Geophysical Research: Oceans, 2017, 122, 1102-1121.	1.0	13

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73	Viral degradation of marine bacterial exopolysaccharides. FEMS Microbiology Ecology, 2019, 95, .	1.3	13
74	Variability in iron (II) oxidation kinetics across diverse hydrothermal sites on the northern Mid Atlantic Ridge. Geochimica Et Cosmochimica Acta, 2021, 297, 143-157.	1.6	13
75	Particulate Trace Element Export in the North Atlantic (GEOTRACES GA01 Transect, GEOVIDE Cruise). ACS Earth and Space Chemistry, 2020, 4, 2185-2204.	1.2	11
76	Introduction to the French GEOTRACES North Atlantic Transect (GA01): GEOVIDE cruise. Biogeosciences, 2018, 15, 7097-7109.	1.3	10
77	Dissolved Iron Patterns Impacted by Shallow Hydrothermal Sources Along a Transect Through the Tongaâ€Kermadec Arc. Global Biogeochemical Cycles, 2022, 36, .	1.9	10
78	Characterization of the vertical size distribution, composition and chemical properties of dissolved organic matter in the (ultra)oligotrophic Pacific Ocean through a multi-detection approach. Marine Chemistry, 2022, 240, 104068.	0.9	9
79	Regulation of the Phytoplankton Heme b Iron Pool During the North Atlantic Spring Bloom. Frontiers in Microbiology, 2019, 10, 1566.	1.5	4
80	Influence of strong iron-binding ligands on cloud water oxidant capacity. Science of the Total Environment, 2022, 829, 154642.	3.9	4
81	Determination of the complex stability of zinc with carbonic anhydrase in sea-water. Analyst, The, 2001, 126, 2036-2039.	1.7	2
82	Early winter barium excess in the southern Indian Ocean as an annual remineralisation proxy (GEOTRACES GIPr07 cruise). Biogeosciences, 2022, 19, 3209-3224.	1.3	0