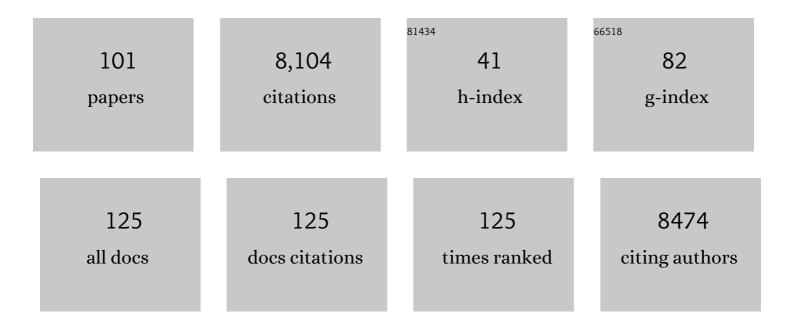
## Bruno Delille

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Sea ice contribution to the air–sea CO <sub>2</sub> exchange in the Arctic and Southern Oceans. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 823.	0.8	102
2	The biogeochemical role of a microbial biofilm in sea ice. Elementa, 2021, 9, .	1,1	13
3	Dynamics of the deep chlorophyll maximum in the Black Sea as depicted by BGC-Argo floats. Biogeosciences, 2021, 18, 755-774.	1.3	15
4	Sources and sinks of methane in sea ice. Elementa, 2021, 9, .	1.1	5
5	Landfast sea ice in the Bothnian Bay (Baltic Sea) as a temporary storage compartment for greenhouse gases. Elementa, 2021, 9, .	1.1	2
6	The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. Nature Climate Change, 2020, 10, 983-992.	8.1	96
7	Sea-ice production and air/ice/ocean/biogeochemistry interactions in the Ross Sea during the PIPERS 2017 autumn field campaign. Annals of Glaciology, 2020, 61, 181-195.	2.8	31
8	Sea Ice CO <sub>2</sub> Dynamics Across Seasons: Impact of Processes at the Interfaces. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015807.	1.0	14
9	Physical and biological properties of early winter Antarctic sea ice in the Ross Sea. Annals of Glaciology, 2020, 61, 241-259.	2.8	9
10	Dimethylsulfoniopropionate (DMSP) and dimethylsulfoxide (DMSO) cell quotas variations arising from sea ice shifts of salinity and temperature in the Prymnesiophyceae Phaeocystis antarctica. Environmental Chemistry, 2020, 17, 509.	0.7	3
11	Constraining Southern Ocean Air-Sea-Ice Fluxes Through Enhanced Observations. Frontiers in Marine Science, 2019, 6, .	1.2	31
12	Polar Ocean Observations: A Critical Gap in the Observing System and Its Effect on Environmental Predictions From Hours to a Season. Frontiers in Marine Science, 2019, 6, .	1.2	43
13	Evidence of Freezing Pressure in Sea Ice Discrete Brine Inclusions and Its Impact on Aqueous aseous Equilibrium. Journal of Geophysical Research: Oceans, 2019, 124, 1660-1678.	1.0	8
14	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. Elementa, 2019, 7, .	1.1	6
15	The first known virus isolates from Antarctic sea ice have complex infection patterns. FEMS Microbiology Ecology, 2018, 94, .	1.3	20
16	CO <sub>2</sub> flux over young and snow-covered Arctic pack ice in winter and spring. Biogeosciences, 2018, 15, 3331-3343.	1.3	24
17	Chlorophyllâ€ <i>a</i> in Antarctic Landfast Sea Ice: A First Synthesis of Historical Ice Core Data. Journal of Geophysical Research: Oceans, 2018, 123, 8444-8459.	1.0	34
18	An active bacterial community linked to high chl- <i>a</i> concentrations in Antarctic winter-pack ice and evidence for the development of an anaerobic sea-ice bacterial community. ISME Journal, 2017, 11, 2345-2355.	4.4	16

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19	Biogeochemical Impact of Snow Cover and Cyclonic Intrusions on the Winter Weddell Sea Ice Pack. Journal of Geophysical Research: Oceans, 2017, 122, 9548-9571.	1.0	17
20	Global high-resolution monthly <i>p</i> CO <sub>2</sub> climatology for the coastal ocean derived from neural network interpolation. Biogeosciences, 2017, 14, 4545-4561.	1.3	71
21	Macro-nutrient concentrations in Antarctic pack ice: Overall patterns and overlooked processes. Elementa, 2017, 5, .	1.1	39
22	Estimates of ikaite export from sea ice to the underlying seawater inÂaÂsea ice–seawater mesocosm. Cryosphere, 2016, 10, 2173-2189.	1.5	20
23	Imaging air volume fraction in sea ice using non-destructive X-ray tomography. Cryosphere, 2016, 10, 1125-1145.	1.5	33
24	Massive marine methane emissions from near-shore shallow coastal areas. Scientific Reports, 2016, 6, 27908.	1.6	121
25	The impact of dissolved organic carbon and bacterial respiration on pCO2 in experimental sea ice. Progress in Oceanography, 2016, 141, 153-167.	1.5	1
26	Air-ice carbon pathways inferred from a sea ice tank experiment. Elementa, 2016, 4, .	1.1	11
27	Assessment of the sea-ice carbon pump: Insights from a three-dimensional ocean-sea-ice biogeochemical model (NEMO-LIM-PISCES). Elementa, 2016, 4, .	1.1	20
28	Incorporation of iron and organic matter into young Antarctic sea ice during its initial growth stages. Elementa, 2016, 4, .	1.1	21
29	Influence of short-term synoptic events and snow depth on DMS, DMSP, and DMSO dynamics in Antarctic spring sea ice. Elementa, 2016, 4, .	1.1	10
30	Drivers of inorganic carbon dynamics in firstâ€year sea ice: A model study. Journal of Geophysical Research: Oceans, 2015, 120, 471-495.	1.0	28
31	Assessing the O2 budget under sea ice: An experimental and modelling approach. Elementa, 2015, 3, .	1.1	3
32	First "in situ―determination of gas transport coefficients (, , and ) from bulk gas concentration measurements (O <sub>2</sub> , N <sub>2</sub> , Ar) in natural sea ice. Journal of Geophysical Research: Oceans, 2014, 119, 6655-6668.	1.0	29
33	CO <sub>2</sub> and CH <sub>4</sub> in sea ice from a subarctic fjord under influence of riverine input. Biogeosciences, 2014, 11, 6525-6538.	1.3	17
34	Physical controls on the storage of methane in landfast sea ice. Cryosphere, 2014, 8, 1019-1029.	1.5	20
35	Insights into oxygen transport and net community production in sea ice from oxygen, nitrogen and argon concentrations. Biogeosciences, 2014, 11, 5007-5020.	1.3	15
36	Sea ice <i>p</i> CO <sub>2</sub> dynamics and air–ice CO <sub>2</sub> fluxes during the Sea Ice Mass Balance in the Antarctic (SIMBA) experiment – Bellingshausen Sea, Antarctica. Cryosphere, 2014, 8, 2395-2407.	1.5	20

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37	Air-Sea Interactions of Natural Long-Lived Greenhouse Gases (CO2, N2O, CH4) in a Changing Climate. Springer Earth System Sciences, 2014, , 113-169.	0.1	29
38	Modelling argon dynamics in first-year sea ice. Ocean Modelling, 2014, 73, 1-18.	1.0	29
39	Physical and bacterial controls on inorganic nutrients and dissolved organic carbon during a sea ice growth and decay experiment. Marine Chemistry, 2014, 166, 59-69.	0.9	21
40	Southern Ocean CO <sub>2</sub> sink: The contribution of the sea ice. Journal of Geophysical Research: Oceans, 2014, 119, 6340-6355.	1.0	72
41	Biogenic silica recycling in sea ice inferred from Si-isotopes: constraints from Arctic winter first-year sea ice. Biogeochemistry, 2014, 119, 25-33.	1.7	14
42	Physical and biological controls on DMS,P dynamics in ice shelf-influenced fast ice during a winter-spring and a spring-summer transitions. Journal of Geophysical Research: Oceans, 2014, 119, 2882-2905.	1.0	22
43	Transfer Across the Air-Sea Interface. Springer Earth System Sciences, 2014, , 55-112.	0.1	69
44	Effect of melting Antarctic sea ice on the fate of microbial communities studied in microcosms. Polar Biology, 2013, 36, 1483-1497.	0.5	29
45	Tracers of physical and biogeochemical processes, past changes and ongoing anthropogenic impacts: The 43rd International Liege Colloquium on Ocean Dynamics, Liege, Belgium, May 2–6, 2011. Journal of Marine Systems, 2013, 126, 1-2.	0.9	0
46	Role of sea ice in global biogeochemical cycles: emerging views and challenges. Quaternary Science Reviews, 2013, 79, 207-230.	1.4	202
47	Particle export during a bloom of Emiliania huxleyi in the North-West European continental margin. Journal of Marine Systems, 2013, 109-110, S182-S190.	0.9	12
48	First estimates of the contribution of CaCO <sub>3</sub> precipitation to the release of CO <sub>2</sub> to the atmosphere during young sea ice growth. Journal of Geophysical Research: Oceans, 2013, 118, 244-255.	1.0	69
49	Physical and biogeochemical properties in landfast sea ice (Barrow, Alaska): Insights on brine and gas dynamics across seasons. Journal of Geophysical Research: Oceans, 2013, 118, 3172-3189.	1.0	75
50	Water column distribution and carbon isotopic signal of cholesterol, brassicasterol and particulate organic carbon in the Atlantic sector of the Southern Ocean. Biogeosciences, 2013, 10, 2787-2801.	1.3	13
51	Investigations on physical and textural properties of Arctic first-year sea ice in the Amundsen Gulf, Canada, November 2007–June 2008 (IPY-CFL system study). Journal of Glaciology, 2013, 59, 819-837.	1.1	22
52	Short-term variability in bacterial abundance, cell properties, and incorporation of leucine and thymidine in subarctic sea ice. Aquatic Microbial Ecology, 2013, 71, 57-73.	0.9	29
53	Dynamics of pCO <sub>2</sub> and related airâ€ice CO <sub>2</sub> fluxes in the Arctic coastal zone (Amundsen Gulf, Beaufort Sea). Journal of Geophysical Research, 2012, 117, .	3.3	85
54	Towards a method for high vertical resolution measurements of the partial pressure of CO <sub>2</sub> within bulk sea ice. Journal of Glaciology, 2012, 58, 287-300.	1.1	17

# ARTICLE IF CITATIONS Spatial and temporal CO<sub&amp;gt;2&amp;lt;/sub&amp;gt; exchanges measured by Eddy Covariance over a temperate intertidal flat and their relationships to net ecosystem production. 1.3 Biogeosciences, 2012, 9, 249-268. Variability of Carbon Dioxide and Methane in the Epilimnion of Lake Kivu., 2012, 47-66. 56 8 Diffusive methane emissions to the atmosphere from Lake Kivu (Eastern Africa). Journal of Geophysical 3.3 Research, 2011, 116, . Biogeochemistry and carbon mass balance of a coccolithophore bloom in the northern Bay of Biscay 58 0.6 16 (June 2006). Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 111-127. Sea ice and snow cover characteristics during the winter–spring transition in the Bellingshausen Sea: An overview of SIMBA 2007. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 0.6 42 1019-1038. Carbonate system in the water masses of the Southeast Atlantic sector of the Southern Ocean during 60 1.3 19 February and March 2008. Biogeosciences, 2011, 8, 1401-1413. Carbon and nitrogen flows during a bloom of the coccolithophore Emiliania huxleyi: Modelling a mesocosm experiment. Journal of Marine Systems, 2011, 85, 71-85. Benthic remineralization in the northwest European continental margin (northern Bay of Biscay). 62 0.9 18 Continental Shelf Research, 2011, 31, 644-658. Sea ice contribution to the air–sea CO<sub&gt;2&lt;/sub&gt; exchange in the Arctic and Southern 0.8 30 Oceans. Tellus, Series B: Chemical and Physical Meteorology, 2011, 63, . Seasonal variability of methane in the rivers and lagoons of Ivory Coast (West Africa). 1.7 81 64 Biogeochemistry, 2010, 100, 21-37. Biogeochemical study of a coccolithophore bloom in the northern Bay of Biscay (NE Atlantic Ocean) 1.5 44 in June 2004. Progress in Oceanography, 2010, 86, 317-336. EPOCA/EUR-OCEANS data compilation on the biological and biogeochemical responses to ocean 66 3.7 23 acidification. Earth System Science Data, 2010, 2, 167-175. Dissolved inorganic carbon dynamics and airâ€sea carbon dioxide fluxes during coccolithophore blooms in the northwest European continental margin (northern Bay of Biscay). Global 1.9 Biogeochemical Cycles, 2010, 24, . Influence of giant kelp beds (Macrocystis pyrifera) on diel cycles of pCO2 and DIC in the Sub-Antarctic 68 0.9 81 coastal area. Estuarine, Coastal and Shelf Science, 2009, 81, 114-122. Seasonal Variability of Carbon Dioxide in the Rivers and Lagoons of Ivory Coast (West Africa). 69 99 Estuaries and Coasts, 2009, 32, 246-260. Climatological mean and decadal change in surface ocean pCO2, and net sea–air CO2 flux over the 70 0.6 1,540 global oceans. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 554-577. Net ecosystem production and carbon dioxide fluxes in the Scheldt estuarine plume. BMC Ecology, 71 3.0 49 2008, 8, 15. 72 Iron study during a time series in the western Weddell pack ice. Marine Chemistry, 2008, 108, 85-95. 0.9 131

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73	Temporal evolution of decaying summer first-year sea ice in the Western Weddell Sea, Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 975-987.	0.6	75
74	Effects of CO <sub>2</sub> on particle size distribution and phytoplankton abundance during a mesocosm bloom experiment (PeECE II). Biogeosciences, 2008, 5, 509-521.	1.3	99
75	Inter-annual variability of the carbon dioxide oceanic sink south of Tasmania. Biogeosciences, 2008, 5, 141-155.	1.3	42
76	Biogas (CO <sub>2</sub> , O <sub>2</sub> , dimethylsulfide) dynamics in spring Antarctic fast ice. Limnology and Oceanography, 2007, 52, 1367-1379.	1.6	127
77	Spatial and temporal variation of bacterioplankton in a sub-Antarctic coastal area (Kerguelen) Tj ETQq1 1 0.7843	814 rgBT / 0.9	Ovgrlock 10
78	CO2deposition over the multi-year ice of the western Weddell Sea. Geophysical Research Letters, 2006, 33, .	1.5	57
79	Carbon dioxide in European coastal waters. Estuarine, Coastal and Shelf Science, 2006, 70, 375-387.	0.9	239
80	Barium distribution across the Southern Ocean frontal system in the Crozet–Kerguelen Basin. Marine Chemistry, 2005, 95, 149-162.	0.9	44
81	Whole-system metabolism and CO <sub>2</sub> fluxes in a Mediterranean Bay dominated by seagrass beds (Palma Bay, NW Mediterranean). Biogeosciences, 2005, 2, 43-60.	1.3	91
82	Testing the direct effect of CO <sub>2</sub> concentration on a bloom of the coccolithophorid <i>Emiliania huxleyi</i> in mesocosm experiments. Limnology and Oceanography, 2005, 50, 493-507.	1.6	244
83	Response of primary production and calcification to changes ofpCO2during experimental blooms of the coccolithophoridEmiliania huxleyi. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	215
84	Variability of the net air–sea CO2flux inferred from shipboard and satellite measurements in the Southern Ocean south of Tasmania and New Zealand. Journal of Geophysical Research, 2005, 110, .	3.3	30
85	Budgeting sinks and sources of CO2in the coastal ocean: Diversity of ecosystems counts. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	515
86	Net ecosystem metabolism in a micro-tidal estuary (Randers Fjord, Denmark): evaluation of methods. Marine Ecology - Progress Series, 2005, 301, 23-41.	0.9	86
87	Gas transfer velocities of CO <sub>2</sub> in three European estuaries (Randers Fjord,Scheldt, and) Tj ETQq1 1	0.784314 1.6	∙rg₿ަOverlo
88	Fronts in the Southern Indian Ocean as inferred from satellite sea surface temperature data. Journal of Marine Systems, 2004, 45, 55-73.	0.9	95
89	Variability of the gas transfer velocity of CO2 in a macrotidal estuary (the Scheldt). Estuaries and Coasts, 2004, 27, 593-603.	1.7	205
90	Crude oil bioremediation in sub-Antarctic intertidal sediments: chemistry and toxicity of oiled residues. Marine Environmental Research, 2004, 57, 311-327.	1.1	97

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91	Transparent exopolymer particles and dissolved organic carbon production by Emiliania huxleyi exposed to different CO2 concentrations: a mesocosm experiment. Aquatic Microbial Ecology, 2004, 34, 93-104.	0.9	172
92	Chromophoric dissolved organic matter in experimental mesocosms maintained under different pCO2 levels. Marine Ecology - Progress Series, 2004, 272, 25-31.	0.9	58
93	Oceanic fronts in the southern Indian Ocean as inferred from the NOAA SST, TOPEX/Poseidon and ERS-2 altimetry data. Gayana, 2004, 68, .	0.0	3
94	Atmospheric CO2flux from mangrove surrounding waters. Geophysical Research Letters, 2003, 30, .	1.5	179
95	Effect of nutrient enrichments on the bacterial assemblage of Antarctic soils contaminated by diesel or crude oil. Polar Record, 2003, 39, 309-318.	0.4	18
96	Mesoscale surface distribution of biogeochemical characteristics in the Crozet Basin frontal zones (South Indian Ocean). Marine Ecology - Progress Series, 2003, 249, 1-14.	0.9	10
97	Carbonate dissolution in the turbid and eutrophic Loire estuary. Marine Ecology - Progress Series, 2003, 259, 129-138.	0.9	111
98	Effectiveness of Bioremediation of Crude Oil Contaminated Subantarctic Intertidal Sediment: The Microbial Response. Microbial Ecology, 2002, 44, 118-126.	1.4	53
99	Seasonal changes of pCO 2 over a subantarctic Macrocystis kelp bed. Polar Biology, 2000, 23, 706-716.	0.5	52
100	Field observations on the variability of crude oil impact on indigenous hydrocarbon-degrading bacteria from sub-Antarctic intertidal sediments. Marine Environmental Research, 2000, 49, 403-417.	1.1	60
101	Carbon Dioxide Emission from European Estuaries. , 1998, 282, 434-436.		480