Melissa Chierici

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A multi-decade record of high-quality <i>f</i> CO ₂ data in version 3 of the Surface Ocean CO ₂ Atlas (SOCAT). Earth System Science Data, 2016, 8, 383-413.	3.7	413
2	Leads in Arctic pack ice enable early phytoplankton blooms below snow-covered sea ice. Scientific Reports, 2017, 7, 40850.	1.6	259
3	Calcium carbonate saturation in the surface water of the Arctic Ocean: undersaturation in freshwater influenced shelves. Biogeosciences, 2009, 6, 2421-2431.	1.3	158
4	Future harvest of living resources in the Arctic Ocean north of the Nordic and Barents Seas: A review of possibilities and constraints. Fisheries Research, 2017, 188, 38-57.	0.9	130
5	The importance of shelf processes for the modification of chemical constituents in the waters of the Eurasian Arctic Ocean: implication for carbon fluxes. Continental Shelf Research, 2001, 21, 225-242.	0.9	114
6	Review article: How does glacier discharge affect marine biogeochemistry and primary production in the Arctic?. Cryosphere, 2020, 14, 1347-1383.	1.5	114
7	A carbon budget for the Arctic Ocean. Global Biogeochemical Cycles, 1998, 12, 455-465.	1.9	98
8	The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. Nature Climate Change, 2020, 10, 983-992.	8.1	96
9	New insights into the spatial variability of the surface water carbon dioxide in varying sea ice conditions in the Arctic Ocean. Continental Shelf Research, 2009, 29, 1317-1328.	0.9	81
10	Seasonal variability of the inorganic carbon system in the Amundsen Gulf region of the southeastern Beaufort Sea. Limnology and Oceanography, 2011, 56, 303-322.	1.6	78
11	Shelled pteropods in peril: Assessing vulnerability in a high CO2 ocean. Earth-Science Reviews, 2017, 169, 132-145.	4.0	78
12	The influence of increased temperature and carbon dioxide levels on the benthic/sea ice diatom Navicula directa. Polar Biology, 2012, 35, 205-214.	0.5	74
13	Effect of glacial drainage water on the <scp>CO</scp> ₂ system and ocean acidification state in an <scp>A</scp> rctic tidewaterâ€glacier fjord during two contrasting years. Journal of Geophysical Research: Oceans, 2015, 120, 2413-2429.	1.0	67
14	Mapping of the air–sea CO2 flux in the Arctic Ocean and its adjacent seas: Basin-wide distribution and seasonal to interannual variability. Polar Science, 2016, 10, 323-334.	0.5	67
15	Antarctic sea ice carbon dioxide system and controls. Journal of Geophysical Research, 2011, 116, .	3.3	64
16	Influence of m-cresol purple indicator additions on the pH of seawater samples: correction factors evaluated from a chemical speciation model. Marine Chemistry, 1999, 65, 281-290.	0.9	61
17	Biogeochemical processes as drivers of surfacefCO2in contrasting provinces in the subarctic North Pacific Ocean. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	57
18	Arctic Ocean CO ₂ uptake: an improved multiyear estimate of the air–sea CO ₂ flux incorporating chlorophyllÂ <i>a</i> concentrations. Biogeosciences, 2018, 15, 1643-1661.	1.3	56

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19	Impact of seaâ€ice processes on the carbonate system and ocean acidification at the iceâ€water interface of the Amundsen Gulf, Arctic Ocean. Journal of Geophysical Research: Oceans, 2013, 118, 7001-7023.	1.0	55
20	Impact of biogeochemical processes and environmental factors on the calcium carbonate saturation state in the Circumpolar Flaw Lead in the Amundsen Gulf, Arctic Ocean. Journal of Geophysical Research, 2011, 116, .	3.3	49
21	Physicochemical control of bacterial and protist community composition and diversity in <scp>A</scp> ntarctic sea ice. Environmental Microbiology, 2015, 17, 3869-3881.	1.8	48
22	Late winter-to-summer change in ocean acidification state in Kongsfjorden, with implications for calcifying organisms. Polar Biology, 2016, 39, 1841-1857.	0.5	42
23	Long-term acclimation to elevated <i>p</i> CO ₂ alters carbon metabolism and reduces growth in the Antarctic diatom <i>Nitzschia lecointei</i> . Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151513.	1.2	40
24	Effects of seaâ€ice and biogeochemical processes and storms on underâ€ice water <i>f</i> CO ₂ during the winterâ€spring transition in the high <scp>A</scp> rctic <scp>O</scp> cean: Implications for seaâ€air CO ₂ fluxes. Journal of Geophysical Research: Oceans, 2017, 122, 5566-5587.	1.0	38
25	Ocean acidification state in western Antarctic surface waters: controls and interannual variability. Biogeosciences, 2014, 11, 57-73.	1.3	37
26	Longâ€Term and Seasonal Trends in Estuarine and Coastal Carbonate Systems. Global Biogeochemical Cycles, 2018, 32, 497-513.	1.9	37
27	Variability in pH, fCO2, oxygen and flux of CO2 in the surface water along a transect in the Atlantic sector of the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 2773-2787.	0.6	31
28	Increased net CO2outgassing in the upwelling region of the southern Bering Sea in a period of variable marine climate between 1995 and 2001. Journal of Geophysical Research, 2006, 111, .	3.3	31
29	Fish embryo vulnerability to combined acidification and warming coincides with low capacity for homeostatic regulation. Journal of Experimental Biology, 2020, 223, .	0.8	26
30	Climate change impacts on sea-ice ecosystems and associated ecosystem services. Elementa, 2021, 9, .	1.1	26
31	Surface water fCO2 algorithms for the high-latitude Pacific sector of the Southern Ocean. Remote Sensing of Environment, 2012, 119, 184-196.	4.6	25
32	Episodic Arctic CO2 Limitation in the West Svalbard Shelf. Frontiers in Marine Science, 2018, 5, .	1.2	25
33	CO ₂ flux over young and snow-covered Arctic pack ice in winter and spring. Biogeosciences, 2018, 15, 3331-3343.	1.3	24
34	Time dependence of organic matter decay and mixing processes in Framvaren, a permanently anoxic fjord in South Norway. Aquatic Geochemistry, 1996, 2, 111-129.	1.5	21
35	Barium and carbon fluxes in the Canadian Arctic Archipelago. Journal of Geophysical Research, 2011, 116, .	3.3	21
36	Acidification of the Nordic Seas. Biogeosciences, 2022, 19, 979-1012.	1.3	21

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97 Durmal variability in the oceanic carbon dioxide system and oxygen in the Southern Ocean surface 0.6 20 98 Annual and seasonal FCO2 and air& sea CO2 fluxes in the Barents Sea. Journal of Marine Systems, 2013, 131:114, 62.74. 0.9 20 99 Prostble future scenarios in the gateways to the Arctic for Subarctic and Arctic marine systems; II. 122 19 12 19 40 Net Community Production and Carbon Exchange From Winter to Summer in the Atlantic Water 1.2 18 41 Continental Shelf Research, 2019, 16, 1-13. 0.9 16 42 Reard/Extract Ocean. Frontiers in Marine Science, 2017, 26, 5017-5045. 1.2 18 43 Continental Shelf Research, 2019, 16, 1-13. 0.9 16 44 Continental Shelf Research Letters, 2021, 48, 2021CL095266. 1.8 18 45 Unreal of set flowers in Kongeforden, Spitsbergen, Annals of Clacciology, 2015, 56, 245-257. 2.8 13 46 Spitsbe future scenarios for two major Arctic Cateways connecting Subarctic and Arctic marine systems, 2017, 86, 301-301. 11 11 47 Temporal Variability in Surface Water - Ope(i) CO cateways connecting Subarctic and Arctic marine systems, 2017, 86, 301. 11 12 13 48 Voits and thost flow	#	Article	IF	CITATIONS
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39 Possible future scenarios in the gateways to the Arctic for Subarctic and Arctic marine systems: II. 12 19 40 Net Community Production and Carbon Exchange From Winter to Summer in the Atlantic Water 1.2 18 41 Marine CO2 system variability in a high arctic tidewater-glacier fjord system, Tempelfjorden, Svalbard. 0.9 15 42 Neard&Eurface Stratification Due to lee Melt Biases Arctic Air&&Eea CO-sub-2 (sub-> Flux Estimates. 1.5 14 43 C02-system development in young sea lee and CO2 gas exchange at the icelair interface mediated by systems: I. Climate and physical&Crite and Arctic marine systems: I. State and frost flowers in Kongstforden, Spitzbergen. Amals of Caclodogy, 2015, 56, 245-257. 1.8 13 44 Possible future scenarios for two major Arctic Cateways connecting Subarctic and Arctic marine systems: I. Climate and physical&Critemical oceanography. ICES Journal of Geophysical Research. 2012, 78, 306-5. 1.2 13 45 Temporal Variability in Surface Water (1) policO sub-2/sub-2/sub-3 in Adventiforden (West Spitzbergen. Alse As 405. 1.0 11 47 Peloing on Physical and Biogeochemical Drivers. Journal of Geophysical Research: Cleans, 2018. 1.0 11 48 Spitzbergen. Alse As 405. 1.0 11 12.4 14 49 Coclophysical Research: Cleans, 2019, 100, 114 <t< td=""><td>38</td><td>Annual and seasonal fCO2 and air–sea CO2 fluxes in the Barents Sea. Journal of Marine Systems, 2013, 113-114, 62-74.</td><td>0.9</td><td>20</td></t<>	38	Annual and seasonal fCO2 and air–sea CO2 fluxes in the Barents Sea. Journal of Marine Systems, 2013, 113-114, 62-74.	0.9	20
40Net Community Production and Carbon Exchange From Winter to Summer in the Atlantic Water1.21841Marine CO2 system variability in a high arctic tidewater glacter fjord system, Tempelfjorden, Svalbard.0.91542NeardéGurface Strattfication Due to lee Melt Biases Arctic AirdéGea CO (sub>2 (sub> Flux Estimates.1.61443CO2-system development. In young sea lee and CO2 gas exchange at the lee/air interface mediated by2.81344Systems: I. Climate and physical&C foremical oceanography. ICES Journal of Marine Science, 2021, 78, 245-255.1.21345Temporal Variability in Surface Water cip c/ix CO (sub>2 (sub> 2 (sub) / Gaz, 452-255.1.21346Systems: I. Climate and physical&C chemical oceanography. ICES Journal of Marine Science, 2021, 78, 21.21147Possible future scenarios for two major Arctic Cateways connecting Subarctic and Arctic marine systems. I. Climate and physical&C chemical oceanography. ICES Journal of Geophysical Research: Oceans, 2011, 0.1148Systems: J. Climate and Sogeochemical Drivers. Journal of Geophysical Research: Oceans, 2011, 1.21149Development. Productivity and Seasonality of Ling Plantonic Foraminiferal Faunas and ci Linaccina ci Biogeochemics, 2020, 125, 20019CO05357.1.31149Spattoremporal Variability of Barlum In Arctic Sea&Gee and Seawater. Journal of Geophysical Research:1.0940Influence of glacial water and carbonate minerals on wintertime sea-26 biogeochemistry and the ci Biogeochemistry of Barlum In Arctic Sea&Gee and Seawater. Journal of Geophysical Research:1.0941Spatt	39	Possible future scenarios in the gateways to the Arctic for Subarctic and Arctic marine systems: II. prey resources, food webs, fish, and fisheries. ICES Journal of Marine Science, 2021, 78, 3017-3045.	1.2	19
41 Marine CO2 system variability in a high arctic tidewater glacker fjord system, Tempelfjorden, Svalbard. 0.9 15 42 NearáéEurface Stratification Due to lee Melt Blases Arctic AráéGea CO (sub>2 Flux Estimates. 1.5 14 43 CO2 system development in young sea ice and CO2 gas exchange at the ice/air interface mediated by trine and frost flowers in Kongsfjorden, Spitsbergen. Annals of Claciology, 2015, 56, 245-257. 2.8 13 44 Possible future scenarios for two major Arctic Gateways connecting Subarctic and Arctic marine systems: I. Climate and physicaläe® chemical oceanography. ICES Journal of Marine Science, 2021, 78, 3046-305. 1.2 13 45 Temporal Variability in Surface Water (spc/b) CO (sub>2 in Adventfjorden (West Spitsbergen) With Englass on Physical and Biogeochemical Drivers. Journal of Geophysical Research: Oceans, 2018, 1.0 11 46 Valuing Blue Carbon Changes in the Arctic Ocean. Frontiers in Marine Science, 2019, 6, . 1.2 13 47 Development, Productivity, and Seasonality of Living Planktonic Foraminiferal Faunas and cisLimacina helcina/(b) in an Area of Intense Methane Seepage in the Barents Sea. Journal of Geophysical Research: 1.0 9 48 Spatiotemporal Variability of Barium in Arctic Sea&Gice and Seawater. Journal of Geophysical Research: 1.0 9 49 Influence of glacial water and carbonate minerals on wintertine sea-ice biogeochemistry and the Coceans, 2	40	Net Community Production and Carbon Exchange From Winter to Summer in the Atlantic Water Inflow to the Arctic Ocean. Frontiers in Marine Science, 2019, 6, .	1.2	18
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43CO2-system development in young sea ice and CO2 gas exchange at the ice/air interface mediated by brine and frost flowers in Kongsfjorden, Spitsbergen. Annals of Claciology, 2015, 56, 245-257.2.81344Possible future scenarios for two major Arctic Gateways connecting Subarctic and Arctic marine systems: I. Climate and physicalä6° chemical oceanography. ICES Journal of Marine Science, 2021, 78, 3046-3065.1.21345Temporal Variability in Surface Water () p./l) CO (sub>2./sub> in Adventfjorden (West Spitsbergen) 	42	Nearâ€Surface Stratification Due to Ice Melt Biases Arctic Airâ€Sea CO ₂ Flux Estimates. Geophysical Research Letters, 2021, 48, e2021GL095266.	1.5	14
44Possible future scenarios for two major Arctic Gateways connecting Subarctic and Arctic marine systems: I. Climate and physicalä6" chemical oceanography. ICES Journal of Marine Science, 2021, 78,1.21345Temporal Variability in Surface Water (i) p (i) CO (sub) 2 (sub) in Adventiforden (West Spitsbergen) 123, 4888.4905.1.0146Valuing Blue Carbon Changes in the Arctic Ocean. Frontiers in Marine Science, 2019, 6, .1.2147Development, Productivity, and Seasonality of Living Planktonic Foraminiferal Faunas and (i) Limacina helicina.(i) in an Area of Intense Methane Scepage in the Barents Sea. Journal of Geophysical Research 	43	CO2-system development in young sea ice and CO2 gas exchange at the ice/air interface mediated by brine and frost flowers in Kongsfjorden, Spitsbergen. Annals of Glaciology, 2015, 56, 245-257.	2.8	13
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46Valuing Blue Carbon Changes in the Arctic Ocean. Frontiers in Marine Science, 2019, 6, .1.21147Development, Productivity, and Seasonality of Living Planktonic Foraminiferal Faunas and <i>Limacina helicina./i> in an Area of Intense Methane Seepage in the Barents Sea. Journal of Geophysical Research Ce Biogeosciences, 2020, 125, e2019JC005387.1.31148Spatiotemporal Variability of Barium in Arctic Seaâ €ke and Seawater. Journal of Geophysical Research: Ceans, 2018, 123, 3507-3522.1.0949Influence of glacial water and carbonate minerals on wintertime sea-ice biogeochemistry and the Co_{22.8950Early spring subglacial discharge plumes fuel under-ice primary production at a Svalbard tidewater glacier. Cryosphere, 2021, 15, 2083-2107.1.1951Shell density of planktonic foraminifera and pteropod species Limacina helicina in the Barents Sea: Relation to ontogeny and water chemistry. PLoS ONE, 2021, 16, e0249178.1.1952Planktic Foraminiferal and Pteropod Contributions to Carbon Dynamics in the Arctic Ocean (North) TJ ETQqO U CHERET (North) Structure)1.1}</i>	45	Temporal Variability in Surface Water <i>p</i> CO ₂ in Adventfjorden (West Spitsbergen) With Emphasis on Physical and Biogeochemical Drivers. Journal of Geophysical Research: Oceans, 2018, 123, 4888-4905.	1.0	11
47Development, Productivity, and Seasonality of Living Planktonic Foraminiferal Faunas and (i) Limacina helicina (i) in an Area of Intense Methane Seepage in the Barents Sea. Journal of Geophysical Research C: Biogeosciences, 2020, 125, e2019JC005387.131148Spatiotemporal Variability of Barium in Arctic Seaâ&ce and Seawater. Journal of Geophysical Research: Oceans, 2018, 123, 3507-3522.1.0949Influence of glacial water and carbonate minerals on wintertime sea-ice biogeochemistry and the CO _{22.8950Early spring subglacial discharge plumes fuel under-ice primary production at a Svalbard tidewater glacier. Cryosphere, 2021, 15, 2083-2107.1.5951Shell density of planktonic foraminifera and pteropod species Limacina helicina in the Barents Sea: Relation to ontogeny and water chemistry. PLoS ONE, 2021, 16, e0249178.1.1952Planktic Foraminiferal and Pteropod Contributions to Carbon Dynamics in the Arctic Ocean (North) Tj ETQq0 0 0 rgBJ /Overlock 10 Tf 50}	46	Valuing Blue Carbon Changes in the Arctic Ocean. Frontiers in Marine Science, 2019, 6, .	1.2	11
48Spatiotemporal Variability of Barium in Arctic Seaâ€ce and Seawater. Journal of Geophysical Research:1.0949Influence of glacial water and carbonate minerals on wintertime sea-ice biogeochemistry and the CO ₂ system in an Arctic fjord in Svalbard. Annals of Glaciology, 2020, 61, 320-340.2.8950Early spring subglacial discharge plumes fuel under-ice primary production at a Svalbard tidewater glacier. Cryosphere, 2021, 15, 2083-2107.1.5951Shell density of planktonic foraminifera and pteropod species Limacina helicina in the Barents Sea: Relation to ontogeny and water chemistry. PLoS ONE, 2021, 16, e0249178.1.1952Planktic Foraminiferal and Pteropod Contributions to Carbon Dynamics in the Arctic Ocean (North) Tj ETQq0 U rgPJ.Vertype type type type type type type type	47	Development, Productivity, and Seasonality of Living Planktonic Foraminiferal Faunas and <i>Limacina helicina</i> in an Area of Intense Methane Seepage in the Barents Sea. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005387.	1.3	11
49Influence of glacial water and carbonate minerals on wintertime sea-ice biogeochemistry and the CO ₂ system in an Arctic fjord in Svalbard. Annals of Glaciology, 2020, 61, 320-340.2.8950Early spring subglacial discharge plumes fuel under-ice primary production at a Svalbard tidewater glacier. Cryosphere, 2021, 15, 2083-2107.1.5951Shell density of planktonic foraminifera and pteropod species Limacina helicina in the Barents Sea: Relation to ontogeny and water chemistry. PLoS ONE, 2021, 16, e0249178.1.1952Planktic Foraminiferal and Pteropod Contributions to Carbon Dynamics in the Arctic Ocean (North) Tj ETQq0 0 or gBT /Overlock 10 Tf 50	48	Spatiotemporal Variability of Barium in Arctic Seaâ€ice and Seawater. Journal of Geophysical Research: Oceans, 2018, 123, 3507-3522.	1.0	9
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51 Shell density of planktonic foraminifera and pteropod species Limacina helicina in the Barents Sea: 1.1 9 51 Relation to ontogeny and water chemistry. PLoS ONE, 2021, 16, e0249178. 1.1 9 52 Planktic Foraminiferal and Pteropod Contributions to Carbon Dynamics in the Arctic Ocean (North) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	50	Early spring subglacial discharge plumes fuel under-ice primary production at a Svalbard tidewater glacier. Cryosphere, 2021, 15, 2083-2107.	1.5	9
Planktic Foraminiferal and Pteropod Contributions to Carbon Dynamics in the Arctic Ocean (North) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	51	Shell density of planktonic foraminifera and pteropod species Limacina helicina in the Barents Sea: Relation to ontogeny and water chemistry. PLoS ONE, 2021, 16, e0249178.	1.1	9
	52	Planktic Foraminiferal and Pteropod Contributions to Carbon Dynamics in the Arctic Ocean (North) Tj ETQq0 0 0	rgBT /Ove	erlock 10 Tf 5

53	Annual carbon fluxes in the upper Greenland Sea based on measurements and a box-model approach. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 1013-1024.	0.8	8
54	Ocean acidification state variability of the Atlantic Arctic Ocean around northern Svalbard. Progress in Oceanography, 2021, 199, 102708.	1.5	8

#	Article	IF	CITATIONS
55	Seasonal dynamics of carbonate chemistry, nutrients and CO2 uptake in a sub-Arctic fjord. Elementa, 2020, 8, .	1.1	7
56	Distribution and Abundances of Planktic Foraminifera and Shelled Pteropods During the Polar Night in the Sea-Ice Covered Northern Barents Sea. Frontiers in Marine Science, 2021, 8, .	1.2	6
57	Cold-Water Coral Reefs in the Langenuen Fjord, Southwestern Norway—A Window into Future Environmental Change. Oceans, 2021, 2, 583-610.	0.6	4