

Melissa Chierici

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,912
citations

218381

26
h-index

174990

52
g-index

62
all docs

62
docs citations

62
times ranked

3479
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-decade record of high-quality CO_2 data in version 3 of the Surface Ocean CO_2 Atlas (SOCAT). <i>Earth System Science Data</i> , 2016, 8, 383-413.	3.7	413
2	Leads in Arctic pack ice enable early phytoplankton blooms below snow-covered sea ice. <i>Scientific Reports</i> , 2017, 7, 40850.	1.6	259
3	Calcium carbonate saturation in the surface water of the Arctic Ocean: undersaturation in freshwater influenced shelves. <i>Biogeosciences</i> , 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. <i>Fisheries Research</i> , 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. <i>Continental Shelf Research</i> , 2001, 21, 225-242.	0.9	114
6	Review article: How does glacier discharge affect marine biogeochemistry and primary production in the Arctic?. <i>Cryosphere</i> , 2020, 14, 1347-1383.	1.5	114
7	A carbon budget for the Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 1998, 12, 455-465.	1.9	98
8	The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. <i>Nature Climate Change</i> , 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. <i>Continental Shelf Research</i> , 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. <i>Limnology and Oceanography</i> , 2011, 56, 303-322.	1.6	78
11	Shelled pteropods in peril: Assessing vulnerability in a high CO_2 ocean. <i>Earth-Science Reviews</i> , 2017, 169, 132-145.	4.0	78
12	The influence of increased temperature and carbon dioxide levels on the benthic/sea ice diatom <i>Navicula directa</i> . <i>Polar Biology</i> , 2012, 35, 205-214.	0.5	74
13	Effect of glacial drainage water on the CO_2 system and ocean acidification state in an Arctic tidewater glacier fjord during two contrasting years. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 2413-2429.	1.0	67
14	Mapping of the air-sea CO_2 flux in the Arctic Ocean and its adjacent seas: Basin-wide distribution and seasonal to interannual variability. <i>Polar Science</i> , 2016, 10, 323-334.	0.5	67
15	Antarctic sea ice carbon dioxide system and controls. <i>Journal of Geophysical Research</i> , 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. <i>Marine Chemistry</i> , 1999, 65, 281-290.	0.9	61
17	Biogeochemical processes as drivers of surface CO_2 in contrasting provinces in the subarctic North Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 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 chlorophyll concentrations. <i>Biogeosciences</i> , 2018, 15, 1643-1661.	1.3	56

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

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37	Diurnal variability in the oceanic carbon dioxide system and oxygen in the Southern Ocean surface water. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004, 51, 2827-2839.	0.6	20
38	Annual and seasonal fCO ₂ and air-sea CO ₂ fluxes in the Barents Sea. <i>Journal of Marine Systems</i> , 2013, 113-114, 62-74.	0.9	20
39	Possible future scenarios in the gateways to the Arctic for Subarctic and Arctic marine systems: II. prey resources, food webs, fish, and fisheries. <i>ICES Journal of Marine Science</i> , 2021, 78, 3017-3045.	1.2	19
40	Net Community Production and Carbon Exchange From Winter to Summer in the Atlantic Water Inflow to the Arctic Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	18
41	Marine CO ₂ system variability in a high arctic tidewater-glacier fjord system, Tempelfjorden, Svalbard. <i>Continental Shelf Research</i> , 2019, 181, 1-13.	0.9	15
42	Near-surface Stratification Due to Ice Melt Biases Arctic Air-sea CO ₂ Flux Estimates. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095266.	1.5	14
43	CO ₂ -system development in young sea ice and CO ₂ gas exchange at the ice/air interface mediated by brine and frost flowers in Kongsfjorden, Spitsbergen. <i>Annals of Glaciology</i> , 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 physical-chemical oceanography. <i>ICES Journal of Marine Science</i> , 2021, 78, 3046-3065.	1.2	13
45	Temporal Variability in Surface Water CO ₂ in Adventfjorden (West Spitsbergen) With Emphasis on Physical and Biogeochemical Drivers. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4888-4905.	1.0	11
46	Valuing Blue Carbon Changes in the Arctic Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	11
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. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2020, 125, e2019JG005387.	1.3	11
48	Spatiotemporal Variability of Barium in Arctic Sea-Ice and Seawater. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3507-3522.	1.0	9
49	Influence of glacial water and carbonate minerals on wintertime sea-ice biogeochemistry and the CO ₂ system in an Arctic fjord in Svalbard. <i>Annals of Glaciology</i> , 2020, 61, 320-340.	2.8	9
50	Early spring subglacial discharge plumes fuel under-ice primary production at a Svalbard tidewater glacier. <i>Cryosphere</i> , 2021, 15, 2083-2107.	1.5	9
51	Shell density of planktonic foraminifera and pteropod species <i>Limacina helicina</i> in the Barents Sea: Relation to ontogeny and water chemistry. <i>PLoS ONE</i> , 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 5	1.2	9
53	Annual carbon fluxes in the upper Greenland Sea based on measurements and a box-model approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 1013-1024.	0.8	8
54	Ocean acidification state variability of the Atlantic Arctic Ocean around northern Svalbard. <i>Progress in Oceanography</i> , 2021, 199, 102708.	1.5	8

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55	Seasonal dynamics of carbonate chemistry, nutrients and CO2 uptake in a sub-Arctic fjord. <i>Elementa</i> , 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. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	6
57	Cold-Water Coral Reefs in the Langenuen Fjord, Southwestern Norwayâ€™A Window into Future Environmental Change. <i>Oceans</i> , 2021, 2, 583-610.	0.6	4