Helmuth Thomas

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Enhanced Open Ocean Storage of CO2 from Shelf Sea Pumping. Science, 2004, 304, 1005-1008.	12.6	471
2	Mechanisms of microbial carbon sequestration in the ocean – future research directions. Biogeosciences, 2014, 11, 5285-5306.	3.3	177
3	The seasonal cycle of carbon dioxide in Baltic Sea surface waters. Journal of Marine Systems, 1999, 22, 53-67.	2.1	134
4	Changes in the North Atlantic Oscillation influence CO ₂ uptake in the North Atlantic over the past 2 decades. Global Biogeochemical Cycles, 2008, 22, .	4.9	127
5	The North Sea $\hat{a} \in$ " A shelf sea in the Anthropocene. Journal of Marine Systems, 2015, 141, 18-33.	2.1	99
6	Rapid decline of the CO ₂ buffering capacity in the North Sea and implications for the North Atlantic Ocean. Global Biogeochemical Cycles, 2007, 21, .	4.9	97
7	The continental shelf pump for CO2 in the North Sea—evidence from summer observation. Marine Chemistry, 2005, 93, 131-147.	2.3	91
8	Surface ocean <i>p</i> CO ₂ seasonality and sea-air CO ₂ flux estimates for the North American east coast. Journal of Geophysical Research: Oceans, 2013, 118, 5439-5460.	2.6	87
9	The carbonate system in the North Sea: Sensitivity and model validation. Journal of Marine Systems, 2012, 102-104, 1-13.	2.1	85
10	Ocean and Coastal Acidification off New England and Nova Scotia. Oceanography, 2015, 25, 182-197.	1.0	80
11	Assessment of the processes controlling the seasonal variations of dissolved inorganic carbon in the North Sea. Limnology and Oceanography, 2006, 51, 2746-2762.	3.1	72
12	Coastal ocean and shelf-sea biogeochemical cycling of trace elements and isotopes: lessons learned from GEOTRACES. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160076.	3.4	56
13	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.	2.6	55
14	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
15	Mechanisms controlling the air–sea flux in the North Sea. Continental Shelf Research, 2009, 29, 1801-1808.	1.8	46
16	The isotopic signature of particulate organic C and N in bottom ice: Key influencing factors and applications for tracing the fate of iceâ€algae in the Arctic Ocean. Journal of Geophysical Research: Oceans, 2013, 118, 287-300.	2.6	44
17	Nitrogen and carbon cycling in the North Sea and exchange with the North Atlantic—A model study, Part II: Carbon budget and fluxes. Continental Shelf Research, 2010, 30, 1701-1716.	1.8	43
18	Looking beyond stratification: a model-based analysis of the biological drivers of oxygen deficiency in the North Sea. Biogeosciences, 2016, 13, 2511-2535.	3.3	43

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19	Correcting a major error in assessing organic carbon pollution in natural waters. Science Advances, 2021, 7, .	10.3	37
20	Variability of North Sea pH and CO ₂ in response to North Atlantic Oscillation forcing. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1584-1592.	3.0	33
21	Comment on "Dilution limits dissolved organic carbon utilization in the deep ocean― Science, 2015, 350, 1483-1483.	12.6	33
22	Impact of ocean acidification on Arctic phytoplankton blooms and dimethyl sulfide concentration under simulated ice-free and under-ice conditions. Biogeosciences, 2017, 14, 2407-2427.	3.3	32
23	Rapid increase of observed DIC and pCO2 in the surface waters of the North Sea in the 2001-2011 decade ascribed to climate change superimposed by biological processes. Marine Chemistry, 2015, 177, 566-581.	2.3	31
24	Sediment-water column fluxes of carbon, oxygen and nutrients in Bedford Basin, Nova Scotia, inferred from ²²⁴ Ra measurements. Biogeosciences, 2013, 10, 53-66.	3.3	25
25	Application and assessment of a membraneâ€based pCO ₂ sensor under field and laboratory conditions. Limnology and Oceanography: Methods, 2014, 12, 264-280.	2.0	23
26	Barium and carbon fluxes in the Canadian Arctic Archipelago. Journal of Geophysical Research, 2011, 116, .	3.3	21
27	The effect of seasonality in phytoplankton community composition on CO 2 uptake on the Scotian Shelf. Journal of Marine Systems, 2015, 147, 52-60.	2.1	16
28	Inorganic carbon cycling and biogeochemical processes in an Arctic inland sea (Hudson Bay). Biogeosciences, 2016, 13, 4659-4671.	3.3	16
29	Metagenomic evidence for the microbial transformation of carboxyl-rich alicyclic molecules: A long-term macrocosm experiment. Water Research, 2022, 216, 118281.	11.3	11
30	Spatial variations in CO ₂ fluxes in the Saguenay Fjord (Quebec,) Tj E	.TQg000	rgBT /Overlocl
31	Different oceanic features of anthropogenic CO 2 and CFCs. Die Naturwissenschaften, 2002, 89, 399-403.	1.6	8
32	Biogeochemistry of coastal seas and continental shelves – Including biogeochemistry during the International Polar Year. Estuarine, Coastal and Shelf Science, 2012, 100, 1-2.	2.1	8
33	Seasonal and spatial variability in the CO2 system on the Scotian Shelf (Northwest Atlantic). Marine Chemistry, 2014, 160, 42-55.	2.3	8
34	The recent state and variability of the carbonate system of the Canadian Arctic Archipelago and adjacent basins in the context of ocean acidification. Biogeosciences, 2020, 17, 3923-3942.	3.3	8
35	A modelling study of temporal and spatial <i>p</i> CO ₂ variability on the biologically active and temperature-dominated Scotian Shelf. Biogeosciences, 2021, 18, 6271-6286.	3.3	8
36	Revisiting the Estimate of the North Sea Airâ€5ea Flux of CO 2 in 2001/2002: The Dominant Role of Different Wind Data Products. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1511-1525.	3.0	7

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37	Inorganic carbon fluxes on the Mackenzie Shelf of the Beaufort Sea. Biogeosciences, 2018, 15, 1011-1027.	3.3	7
38	Strong Margin Influence on the Arctic Ocean Barium Cycle Revealed by Panâ€Arctic Synthesis. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	6
39	Using ²²⁶ Ra and ²²⁸ Ra isotopes to distinguish water mass distribution in the Canadian Arctic Archipelago. Biogeosciences, 2020, 17, 4937-4959.	3.3	5
40	Hurricane Arthur and its effect on the short-term variability of <i>p</i> CO ₂ on the Scotian Shelf, NW Atlantic. Biogeosciences, 2018, 15, 2111-2123.	3.3	4
41	The impact of intertidal areas on the carbonate system of the southern North Sea. Biogeosciences, 2020, 17, 4223-4245.	3.3	3
42	The Future of Marine Biogeochemistry, Ecosystems, and Societies. Eos, 2013, 94, 184-184.	0.1	2
43	High-frequency variability of CO ₂ in Grand Passage, Bay of Fundy, Nova Scotia. Biogeosciences, 2019, 16, 605-616.	3.3	1
44	Continental Margins: Linking Ecosystems: Impacts of Global, Local and Human Forcings on Biogeochemical Cycles and Ecosystems, IMBER/LOICZ Continental Margins Open Science Conference;	0.1	0

Shanghai, China, 17–21 September 2007. Eos, 2008, 89, 64.