

Bibliometric summary:

In total 716 citations of which 365 are since 2019.

H-index is 14 in total and 14 since 2019.

Source: Google Scholar 2024-04-10.

Publications in international peer reviewed journals

19. **Wåhlström, I.**, Almroth-Rosell, E., Edman, M., Olofsson, M., Eilola, K., Fleming V., Gröger, M., Arneborg, L., Meier, H.E.M., Increased nutrient retention and cyanobacterial blooms in a future coastal zone, *Estuarine, Coastal and Shelf Science*, Volume 301, 2024, 108728, <https://doi.org/10.1016/j.ecss.2024.108728>
18. **Wåhlström, I.**, Hammar, L., Hume, D., Pålsson, J., Almroth-Rosell, E., Dieterich, C., Arneborg, L., Gröger, M., Mattsson, M., Zillén Snowball, L., Kågesten, G., Törnqvist, O., Breviere, E., Brunnabend, S.-E., & Jonsson, P. R., 2022. Projected climate change impact on a coastal sea—As significant as all current pressures combined. *Global Change Biology*, 28(17), 5310-5319. <https://doi.org/10.1111/gcb.16312>
17. Clement Kinney, J., Assmann, K. M., Maslowski, W., Björk, G., Jakobsson, M., Jutterström, S., Lee, Y. J., Osinski, R., Semiletov, I., Ulfsbo, A., **Wåhlström, I.**, and Anderson, L. G., 2022. On the circulation, water mass distribution, and nutrient concentrations of the western Chukchi Sea, *Ocean Sci.*, 18, 29–49. <https://doi.org/10.5194/os-18-29-2022>
16. Almroth-Rosell, E., **Wåhlström, I.**, Hansson, M., Väli, G., Eilola, K., Andersson, P., Viktorsson, L., Hieronymus, M., Arneborg, L., 2021. A Regime Shift Toward a More Anoxic Environment in a Eutrophic Sea in Northern Europe. *Front. Mar. Sci.* 8:799936. <https://doi.org/10.3389/fmars.2021.799936>
15. Jonsson P.R., Hammar L., **Wåhlström, I.**, Pålsson, J., Hume, D., Almroth-Rosell, E., Mattsson M., Combining seascape connectivity with cumulative impact assessment in support of ecosystem-based marine spatial planning. *J Appl Ecol.* 2021; 58:576–586. <http://dx.doi.org/10.1111/1365-2664.13813>
14. Bossier, S., Nielsen, J.R., Almroth-Rosell, E., Höglund, A., Bastardie, F., Neuenfeldt, S., **Wåhlström, I.**, Christensen, A., 2021. Integrated ecosystem impacts of climate change and eutrophication on main Baltic fishery resources, *Ecological Modelling*, Volume 453, 109609, ISSN 0304-3800, <https://doi.org/10.1016/j.ecolmodel.2021.109609>
13. **Wåhlström, I.**, Höglund, A., Almroth-Rosell, E., MacKenzie, B.R., Gröger, M., Eilola, K., Plikshs, M., Andersson, H.C., 2020. Combined climate change and nutrient load impacts on future habitats and eutrophication indicators in a eutrophic coastal sea. *Limnol. Oceanogr.* 65, 2170–2187. <https://doi.org/10.1002/lno.11446>
12. Gogina, M., Zettler, M. L., **Wåhlström, I.**, Andersson, H., Radtke, H., Kuznetsov, I., MacKenzie, B. R., 2020. A combination of species distribution and ocean-biogeochemical models suggests that climate change overrides eutrophication as the driver of future distributions of a key benthic crustacean in the estuarine ecosystem of the Baltic Sea, *ICES Journal of Marine Science*, Volume 77, Issue 6, 2089–2105, <https://doi.org/10.1093/icesjms/fsaa107>

11. Meier, H. E. M., Dieterich, C., Eilola, K., Gröger, M., Höglund, A., Radtke, H., Saraiva, S., **Wåhlström, I.** 2019. Future projections of record-breaking sea surface temperature and cyanobacteria bloom events in the Baltic Sea. *Ambio*, 48(11), 1362-1376. <https://doi.org/10.1007/s13280-019-01235-5>
10. Edman, M., Eilola, K., Almroth-Rosell, E., Meier, H.E.M, **Wåhlström, I.**, Arneborg, L., 2018. Nutrient retention in the Swedish Coastal Zone, *Front. Mar. Sci.* 5:415. <https://doi.org/10.3389/fmars.2018.00415>
9. **Wåhlström, I.**, Dieterich, C., Pemberton, P., Meier H.E.M., 2016. Impact of increasing inflow of warm Atlantic water on the sea-air exchange of carbon dioxide and methane in the Laptev Sea, *J. Geophys. Res. Biogeosci.*, 121, 1867-1883. <https://doi.org/10.1002/2015JG003307>
8. **Wåhlström, I.**, Meier H.E.M., 2014. Sensitivity of the sea-air exchange of CH₄ in the Laptev Sea, Arctic Ocean; A model study. *Tellus B*, 66:1. <https://doi.org/10.3402/tellusb.v66.24174>
7. Anderson, L.G., Andersson, P.S., Björk, G., Jones, E.P., Jutterström, S., **Wåhlström, I.**, 2013. Source and formation of the upper halocline of the Arctic Ocean, *J. Geophys. Res. Oceans*, 118, 410–421. <https://doi.org/10.1029/2012JC008291>
6. **Wåhlström, I.**, Omstedt, A., Björk, G., Anderson, L.G., 2013. Modelling the CO₂ dynamics in the Laptev Sea, Arctic Ocean: Part II Sensitivity of fluxes to changes in the forcing, *J. Mar. Syst.*, 111-112, 1-10. <https://doi.org/10.1016/j.jmarsys.2012.09.001>
5. **Wåhlström, I.**, Omstedt, A., Björk, G., Anderson, L.G., 2012. Modelling the CO₂ dynamics in the Laptev Sea, Arctic Ocean: Part I, *J. Mar. Syst.*, 102-104, 29-38, <https://doi.org/10.1016/j.jmarsys.2012.05.001>.
4. Anderson, L.G., Björk, G., Jutterström, S., Pipko, I., Shakhova, N., Semiletov, I.P., **Wåhlström, I.**, 2011. East Siberian Sea, an Arctic region of very high biogeochemical activity, *Biogeosciences*, 8, 1745–1754. <https://doi.org/10.5194/bg-8-1745-2011>
3. Pipko, I.I., Semiletov, I.P., Pugach, S.P., **Wåhlström, I.**, and Anderson, L.G., 2011. Interannual variability of air-sea CO₂ fluxes and carbonate system parameters in the East Siberian Sea, *Biogeosciences*, 8, 1987-2007. <https://doi.org/10.5194/bg-8-1987-2011>
2. Anderson L.G., Tanhua, T., Björk, G., Hjalmarsson, S., Jones, E. P., Jutterström, S., Rudels, B., Swift, J. H., **Wåhlström, I.**, 2010. Arctic Ocean shelf – basin interaction, an active continental shelf CO₂ pump and its impact on the degree of calcium carbonate dissolution, *Deep Sea Res.*, I 57, 869–879. <https://doi.org/10.1016/j.dsr.2010.03.012>
1. Anderson, L. G., Jutterström, S., Hjalmarsson, S., **Wåhlström, I.**, and Semiletov, I. P., 2009. Out-gassing of CO₂ from Siberian Shelf seas by terrestrial organic matter decomposition, *Geophys. Res. Lett.*, 36, L20601. Doi:10.1029/2009GL040046.

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2. Karlson, B., Eilola, K., Johansson, J., Linders, J., Mohlin, M., Willstrand Wranne, A., **Wåhlström, I.**, 2017. Distribution of cyanobacteria blooms in the Baltic Sea. In: Proença, L.A.O. and Hallegraeff, G.M. (eds). *Marine and Fresh-Water Harmful Algae. Proceedings of*

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Other publications

1. Brévière, E., Hammar, L., **Wåhlström, I.**, Pålsson, J., Arneborg, L., Almroth-Rosell, E., Jonsson, P., 2023. Why We Must Think About Climate Change When Planning How to Use Our Seas. Front. Young Minds 11:1029011. Doi: 10.3389/frym.2023.1029011

Published reports

4. **Wåhlström, I.**, Pålsson J., Törnqvist, O., Jonsson, P., Gröger, M., Almroth-Rosell, E., Bringing climate change into ecosystem based management of the sea: Data and methods for the Symphony framework, 2020. SMHI RO rapport no 68
3. Eilola, K., Lindqvist, S., Almroth-Rosell, E., Edman, M., **Wåhlström, I.**, Bartoli, M., Burska, D., Carstensen, J., Hellemann, D., Hietanen, S., Hulth, S., Janas, U. 2017, Linking process rates with modelling data and ecosystem characteristics. SMHI Report Oceanography, No. 61
2. **Wåhlström, I.**, Eilola, K., Edman, M., Almroth-Rosell, E., 2017 Evaluation of open sea boundary conditions for the coastal zone. A model study in the northern part of the Baltic Proper. SMHI Report Oceanography, No. 55
1. Wesslander, K., Eilola, K., **Wåhlström, I.**, Coastal eutrophication status assessment using HEAT 1.0 (WFD methodology) versus HEAT 3.0 (MSFD methodology) and Development of an oxygen consumption indicator. SMHI report Oceanography No. 51

Thesis

- Wåhlström, I.**, 2012. Fluxes and transformation of carbon in the Siberian shelf seas under changing environment". Ph.D. thesis, Dep. of chemistry and molecular biology, Faculty of Science, University of Gothenburg, Sweden. <http://hdl.handle.net/2077/28865>