

Bilaga 3

Vetenskapliga publikationer 2024

I denna bilaga redovisas vetenskapliga artiklar med författare från IVL Svenska Miljöinstitutet under 2024.

Antal vetenskapliga artiklar: 123 (48 inom Hållbar Miljö, 49 inom Hållbart Samhälle och 26 inom Hållbar Omställning).

Lista på vetenskapliga artiklar: Listan på vetenskapliga artiklar är framtagen genom Web of Science. I söksträngen har vi specificerat att författarna ska vara affilierade till IVL och reprints, korrigerade artiklar och meeting abstracts är exkluderade. Artikelns ska ha ett publiceringsdatum eller early access datum i 2024. Sökningen har även kompletterats med en sökning på DiVA för att hitta publikationer som inte fångats upp av Web of Science.

Hållbar Miljö (48 st)

1. **Alfredsson, E. C., Lindvall, D., Karlsson, M., & Malmaeus, M. J.** (2024). Industrial climate mitigation strategies and the remaining fair carbon budget – The case of Sweden. *Next Sustainability*, 3, 100031-100031. doi:10.1016/j.nxsust.2024.100031
2. **Bergman, K., Gröndahl, F., Hasselström, L., Strand, Å., Thomas, J. B. E., & Hornborg, S.** (2024). Integrating biodiversity impacts into seafood life cycle assessments: pathways for improvement. *International Journal of Life Cycle Assessment*, 14. doi:10.1007/s11367-024-02414-7
3. **Bergström, P., Strand, Å., Thorngren, L., Faxén, A., Lindegarth, M., & Lindegarth, S.** (2024). Differences in growth patterns among three bivalve species and in relation to exposure and implications for aquaculture and ecological functions. *Estuarine Coastal and Shelf Science*, 303, 9. doi:10.1016/j.ecss.2024.108808
4. **Carlaw, N., Bekö, G., Langer, S., Schoemaeker, C., Mihucz, V. G., Dudzinska, M., Wiesen, P., Nehr, S., Huttunen, K., Querol, X., & Shaw, D.** (2024). A new framework for indoor air chemistry measurements: Towards a better understanding of indoor air pollution. *Indoor Environments*, 1(1), 100001-100001. doi:10.1016/j.indenv.2023.100001
5. **de Jonge, R. W., Xavier, C., Olenius, T., Elm, J., Svenhag, C., Hyttinen, N., Nieradzik, L., Sarnela, N., Kristensson, A., Petaja, T., Ehn, M., & Roldin, P.** (2024). Natural Marine Precursors Boost Continental New Particle Formation and Production of Cloud Condensation Nuclei. *Environmental Science & Technology*, 58(25), 10956-10968. doi:10.1021/acs.est.4c01891
6. **Domhagen, F., Langer, S., & Kalagasidis, A. S.** (2024). Theoretical Threshold for Estimating the Impact of Ventilation on Materials' Emissions. *Environmental Science & Technology*, 58(11), 5058-5067. doi:10.1021/acs.est.3c09815
7. **Du, Y. X., Isaxon, C., Roldin, P., Mattisson, K., Karttunen, S., Li, X. Y., Malmqvist, E., & Järvi, L.** (2024). Large-eddy simulation of aerosol concentrations in a realistic urban environment: Model validation and transport mechanism. *Environmental Pollution*, 358, 9. doi:10.1016/j.envpol.2024.124475
8. **Eklöf, K., von Brömssen, C., Huser, B., Akerblom, S., Augustaitis, A., Braaten, H. F. V., de Wit, H. A., Dirnböck, T., Elustondo, D., Grandin, U., Holubová, A., Kleemola, S., Krám, P., Lundin, L., Löfgren, S., Markensten, H., Moldan, F., Karlsson, G. P., Rönnback, P., Valinia, S., & Vuorenmaa, J.** (2024). Trends in mercury, lead and cadmium concentrations in 27 European streams and rivers: 2000-2020. *Environmental Pollution*, 360, 9. doi:10.1016/j.envpol.2024.124761

9. **Evans, C. D., Jutterström, S., Stadmark, J., Peacock, M., Futter, M., Kothawala, D., Monteith, D., & Moldan, F.** (2024). Four decades of changing dissolved organic matter quality and stoichiometry in a Swedish forest stream. *Biogeochemistry*, 167(9), 1139-1157. doi:10.1007/s10533-024-01166-8
10. **Feinberg, A., Selin, N. E., Braban, C. F., Chang, K. L., Custódio, D., Jaffe, D. A., Kyllönen, K., Landis, M. S., Leeson, S. R., Luke, W., Molepo, K. M., Murovec, M., Mastromonaco, M. G. N., Pfaffhuber, K. A., Rüdiger, J., Sheu, G. R., & St Louis, V. L.** (2024). Unexpected anthropogenic emission decreases explain recent atmospheric mercury concentration declines. *Proceedings of the National Academy of Sciences of the United States of America*, 121(42), 11. doi:10.1073/pnas.2401950121
11. **Franzen, F., Strand, A., Stadmark, J., Ingmansson, I., Thomas, J. B. E., Soederqvist, T., Sinha, R., Groendahl, F., & Hasselstroem, L.** (2024). Governance hurdles for expansion of low trophic mariculture production in Sweden. *Ambio*, 53(10), 1466-1478. doi:10.1007/s13280-024-02033-4
12. **Goodall, J., Pettersson, M. E., Bergström, U., Cocco, A., Delling, B., Heimbrand, Y., Karlsson, O. M., Larsson, J., Waldetoft, H., Wallberg, A., Wennerström, L., & Andersson, L.** (2024). Evolution of fast-growing piscivorous herring in the young Baltic Sea. *Nature Communications*, 15(1), 13. doi:10.1038/s41467-024-55216-8
13. **Grigoriadis, A., Kousias, N., Raptopoulos-Chatzistefanou, A., Salberg, H., Moldanova, J., Hermansson, A. L., Cha, Y. Y., Kontses, A., Toumasatos, Z., Mamarikas, S., & Ntziachristos, L.** (2024). Particulate and Gaseous Emissions from a Large Two-Stroke Slow-Speed Marine Engine Equipped with Open-Loop Scrubber under Real Sailing Conditions. *Atmosphere*, 15(7), 21. doi:10.3390/atmos15070845
14. **Guerrieri, R., Caliz, J., Mattana, S., Barcelo, A., Candela, M., Elustondo, D., Fortmann, H., Hellsten, S., Koenig, N., Lindroos, A. J., Matteucci, G., Merilae, P., Michalski, G., Nicolas, M., Thimonier, A., Turroni, S., Vanguelova, E., Verstraeten, A., Waldner, P., Watanabe, M., Casamayor, E. O., Penuelas, J., & Mencuccini, M.** (2024). Substantial contribution of tree canopy nitrifiers to nitrogen fluxes in European forests. *Nature Geoscience*, 17(2), 130-+. doi:10.1038/s41561-023-01364-3
15. **Gustafsson, M., Strand, A., Laugen, A. T., Albretsen, J., Andre, C., Brostroem, G., Jorde, P. E., Knutsen, H., Ortega-Martinez, O., Sodeland, M., Waern, M., Wrangle, A. L., & De Wit, P.** (2024). Unlocking the secret life of blue mussels: Exploring connectivity in the Skagerrak through biophysical modeling and population genomics. *Evolutionary Applications*, 17(5), 18. doi:10.1111/eva.13704
16. **Gustafsson, M. S. M., Lindén, J., Johansson, E. M. M., Watne, Å., & Pleijel, H.** (2024). Air pollution removal with urban greenery - Introducing the Vegetation Impact Dynamic Assessment model (VIDA). *Atmospheric Environment*, 323, 13. doi:10.1016/j.atmosenv.2024.120397
17. **Gustafsson, M. S. M., Lindén, J., Johansson, E. M. M., Watne, Å., Uddling, J., Sjölie, D., & Pleijel, H.** (2024). Well-planned greenery improves air urban quality - Modelling the effect of altered airflow and pollutant deposition. *Atmospheric Environment*, 338, 14. doi:10.1016/j.atmosenv.2024.120829
18. **Johansson, J. H., Bolinius, D., Strandberg, J., Yang, J. J., Benskin, J. P., & Awad, R.** (2024). Emission of Perfluoroalkyl Acids and Unidentified Organofluorine from Swedish Municipal Waste Incineration Plants. *Environmental Science & Technology Letters*, 11(12), 1377-1383. doi:10.1021/acs.estlett.4c00819
19. **Karlsson, G. P., Akselsson, C., Hellsten, S., & Karlsson, P. E.** (2024). Atmospheric deposition and soil water chemistry in Swedish forests since 1985-Effects of reduced emissions of sulphur and nitrogen. *Science of the Total Environment*, 913, 13. doi:10.1016/j.scitotenv.2023.169734
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21. **Karlsson, O. M., Dellings, B., Viktor, T., Sandström, O., Waldetoft, H., & Bengtsson, B. E.** (2024). Discovery of mineralization in the caudal vertebrae of perch (*Perca fluviatilis* L.): A potential new tool for environmental impact assessment. *Aquaculture, Fish and Fisheries*, 4(3), 4. doi:10.1002/aff2.183
22. **Karltorp, K., Lu, S. S., & Vico, E. P.** (2024). Three incumbents restructuring the Swedish energy and steel regimes: the case of Hybrit. *Industry and Innovation*, 31(8), 1058-1092. doi:10.1080/13662716.2024.2376317
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24. **Li, L. J., Thomsen, D., Wu, C., Priestley, M., Iversen, E. M., Skonager, J. T., Luo, Y. Y., Ehn, M., Roldin, P., Pedersen, H. B., Bilde, M., Glasius, M., & Hallquist, M.** (2024). Gas-to-Particle Partitioning of Products from Ozonolysis of Δ^3 -Carene and the Effect of Temperature and Relative Humidity. *Journal of Physical Chemistry A*, 128(5), 918-928. doi:10.1021/acs.jpca.3c07316
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26. **Luo, Y. Y., Thomsen, D., Iversen, E. M., Roldin, P., Skonager, J. T., Li, L. J., Priestley, M., Pedersen, H. B., Hallquist, M., Bilde, M., Glasius, M., & Ehn, M.** (2024). Formation and temperature dependence of highly oxygenated organic molecules (HOMs) from Δ^3 -carene ozonolysis. *Atmospheric Chemistry and Physics*, 24(16), 9459-9473. doi:10.5194/acp-24-9459-2024
27. **Lyshtva, P., Voronova, V., Barbir, J., Leal, W., Kröger, S. D., Witt, G., Miksch, L., Sabowski, R., Gutow, L., Frank, C., Emmerstorfer-Augustin, A., Agustin-Salazar, S., Cerruti, P., Santagata, G., Stagnaro, P., D'Arrigo, C., Vignolo, M., Krång, A. S., Strömberg, E., Lehtinen, L., & Annunen, V.** (2024). Degradation of a poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) compound in different environments. *Heliyon*, 10(3), 20. doi:10.1016/j.heliyon.2024.e24770
28. **Malmqvist, E., Stroh, E., Flanagan, E., Isaxon, C., Roldin, P., & Oudin, A.** (2024). Estimating the potential health effects of cleaner air in the initial stages of the COVID-19 pandemic: a study in Malmö, Sweden. *Global Health Action*, 17(1), 6. doi:10.1080/16549716.2024.2416291
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35. Sangiorgio, D., Cáliz, J., Mattana, S., Barceló, A., De Cinti, B., Elustondo, D., Hellsten, S., Magnani, F., Matteucci, G., Merilä, P., Nicolas, M., Ravaioli, D., Thimonier, A., Vanguelova, E., Verstraeten, A., Waldner, P., Casamayor, E. O., Peñuelas, J., Mencuccini, M., & Guerrieri, R. (2024). Host species and temperature drive beech and Scots pine phyllosphere microbiota across European forests. *Communications Earth & Environment*, 5(1), 10. doi:10.1038/s43247-024-01895-6
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38. Thomsen, D., Iversen, E. M., Skonager, J. T., Luo, Y. Y., Li, L. J., Roldin, P., Priestley, M., Pedersen, H. B., Hallquist, M., Ehn, M., Bilde, M., & Glasius, M. (2024). The effect of temperature and relative humidity on secondary organic aerosol formation from ozonolysis of Δ^3 -carene. *Environmental Science-Atmospheres*, 4(1), 88-103. doi:10.1039/d3ea00128h
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45. **Xavier, C., de Jonge, R. W., Jokinen, T., Beck, L., Sipila, M., Olenius, T., & Roldin, P.** (2024). Role of Iodine-Assisted Aerosol Particle Formation in Antarctica. *Environmental Science & Technology*, 58(17), 7314-7324. doi:10.1021/acs.est.3c09103
46. **Zauli, I., Rossini, E., Pennisi, G., Martin, M., Crepaldi, A., Gianquinto, G., & Orsini, F.** (2024). The Perfect Match: Testing the Effect of Increasing Red and Blue Ratio on Baby-Leaf Kale Growth, Yield and Physiology. *Horticulturae*, 10(11), 13. doi:10.3390/horticulturae10111134
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48. **zu Ermgassen, P. S. E., McCormick, H., Debney, A., Fariñas-Franco, J. M., Gamble, C., Gillies, C., Hancock, B., Laugen, A. T., Pouvreau, S., Preston, J., Sanderson, W. G., Strand, A., & Thurstan, R. H.** (2024). European Native Oyster Reef Ecosystems Are Universally Collapsed. *Conservation Letters*, 12. doi:10.1111/conl.13068

Hållbart Samhälle (49 st)

1. **Baresel, C., Salem, M., Roberts, R., Malovanyy, A., Lemstroem, H., & Esfahani, B.** (2024). Approaching Breakthrough: Resource-Efficient Micropollutant Removal with MBR-GAC Configuration. *Applied Sciences-Basel*, 14(17), 13. doi:10.3390/app14177759
2. **Caravan, R. L., Bannan, T. J., Winiberg, F. A. F., Khan, M. A. H., Rousso, A. C., Jasper, A. W., Worrall, S. D., Bacak, A., Artaxo, P., Brito, J., Priestley, M., Allan, J. D., Coe, H., Ju, Y., Osborn, D. L., Hansen, N., Klippenstein, S. J., Shallcross, D. E., Taatjes, C. A., & Percival, C. J.** (2024). Observational evidence for Criegee intermediate oligomerization reactions relevant to aerosol formation in the troposphere. *Nature Geoscience*, 17(3), 20. doi:10.1038/s41561-023-01361-6
3. **Carotti, L., Pistillo, A., Zauli, I., Pennisi, G., Martin, M., Gianquinto, G., & Orsini, F.** (2024). Far-red radiation management for lettuce growth: Physiological and morphological features leading to energy optimization in vertical farming. *Scientia Horticulturae*, 334, 14. doi:10.1016/j.scienta.2024.113264
4. **de Jong, A., Milestad, R., Bustamante, M. J., & Martin, M.** (2024). Analyzing the divergence and development of business models for urban farming. *Urban Agriculture & Regional Food Systems*, 9(1). doi:10.1002/uar.2.70004
5. **Dufour, M., Möllersten, K., & Zetterberg, L.** (2024). How to maintain environmental integrity when using state support and the VCM to co-finance BECCS projects - a Swedish case study. *Frontiers in Environmental Science*, 12, 12. doi:10.3389/fenvs.2024.1387138
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7. **Eltohamy, H., van Oers, L., Lindholm, J., Raugei, M., Lokesh, K., Baars, J., Husmann, J., Hill, N., Istrate, R., Jose, D., Tegstedt, F., Beylot, A., Menegazzi, P., Guinée, J., & Steubing, B.** (2024). Review of current practices of life cycle assessment in electric mobility: A first step towards method harmonization. *Sustainable Production and Consumption*, 52, 299-313. doi:10.1016/j.spc.2024.10.026

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13. **Hagbert, P., Perjo, L., & Nyblom, A.** (2024). Housing as an Arena for Change - From Eco-Efficiency to Sufficiency in the Swedish Housing Sector. *Housing Theory & Society*, 18. doi:10.1080/14036096.2024.2397987
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