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A. Peer-reviewed scientific articles

1. Lepistö, T., Aurela, M., Lintusaari, H., Silvonen, V., Markkula, L., Hoivala, J., Schins, R.P.F., **Timonen, H.**, Jalava, P., Saarikoski, S., Rönkkö, T., The regional and local sources of particle lung deposited surface area (LDSAal) and aerosol physical and chemical characteristics in a major Central European city, *Atmospheric Environment*, <https://doi.org/10.1016/j.atmosenv.2025.121181>.
2. Elsayed, M., Silvonen, V., Luoto, A., Lintusaari, H., Hakala, J., **Timonen, H.**, Harni, S. D., Rönkkö, T., and Sormunen, P.: How air cleaners, ventilation, and outdoor air pollution influence air quality in European hospitals: Case studies from Finland and Romania, *Building and Environment*, 112865, <https://doi.org/10.1016/j.buildenv.2025.112865>, 2025.
3. Savadkoobi, M., Gherras, M., Favez, O., Petit, J.-E., Rovira, J., Chen, G. I., Via, M., Platt, S., Aurela, M., Chazeau, B., de Brito, J. F., Riffault, V., Eleftheriadis, K., Flentje, H., Gysel-Beer, M., Hueglin, C., Rigler, M., Gregorič, A., Ivančič, M., Keernik, H., Maasikmets, M., Liakakou, E., Stavroulas, I., Luoma, K., Marchand, N., Mihalopoulos, N., Petäjä, T., Prevot, A. S. H., Daellenbach, K. R., Vodička, P., **Timonen, H.**, Tobler, A., Vasilescu, J., Dandoci, A., Mbengue, S., Vratolis, S., Zografou, O., Chauvigné, A., Hopke, P. K., Querol, X., Alastuey, A., and Pandolfi, M.: Addressing the advantages and limitations of using Aethalometer data to determine the optimal Absorption Ångström Exponents (AAEs) values for eBC source apportionment, *Atmospheric Environment*, 121121, <https://doi.org/10.1016/j.atmosenv.2025.121121>, 2025.
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5. Lintusaari, H., Lepistö, T., Saarikoski, S., Salo, L., Silvonen, V., Barreira, L. M. F., Aurela, M., Hoivala, J., Markkula, L., Ondracek, J., Wahle, T., Vojtisek-Lom, M., Topinka, J., Schins, R. P. F., Jalava, P., **Timonen, H.**, Kanninen, K. M., and Rönkkö, T.: Importance of sub-23 nm particles in traffic environments: Particle number emission factors and extrathoracic deposition doses, *Environmental Pollution*, 369, 125835, <https://doi.org/10.1016/j.envpol.2025.125835>, 2025.
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B. Non-refereed scientific articles (selected abstracts)

1. Sanna Saarikoski, Minna Aurela, Luis M. Barreira, **Hilkka Timonen**, Jarkko V. Niemi, Hanna E. Manninen, Topi Rönkkö Changes in the composition of ambient organic aerosol related to traffic emissions during the last decade, European Aerosol Conference, 25.8-1.9.2024, Tampere, Finland.
2. J.V. Niemi, A. Kousa, H. Portin, A. Julkunen, M. Aurela, K. Teinilä, S. Saarikoski, T. Lepistö, T. Rönkkö, **H. Timonen**, and H.E. Manninen, Air quality trends and insights at street canyon supersite in Helsinki, European Aerosol Conference, 25.8-1.9.2024, Tampere, Finland.
3. K. Teinilä¹, J.V. Niemi², H. Portin², A. Julkunen², A. Kousa², T. Lepistö³, H.E. Manninen², T. Petäjä⁴, T. Rönkkö³, E. Saukko⁵, and **H. Timonen**¹ Particle number concentrations measured with AQ urban in Helsinki in two different environments, European Aerosol Conference, 25.8-1.9.2024, Tampere, Finland.
4. L.M.F. Barreira¹, M. Aurela¹, S. Saarikoski¹, D. Li¹, K. Teinilä¹, A. Virkkula¹, J.V. Niemi², H.E. Manninen², L. Pirjola³, T. Rönkkö⁴, **H. Timonen**¹ Chemical composition and light-

- absorption properties of brown carbon in residential and traffic environments, European Aerosol Conference, 25.8-1.9.2024, Tampere, Finland.
5. S.D.Harni, L. Johansson, J.V.Niemi, K.Luoma, A. Kousa, J.A. Casquero-Vera, T. Chang, H.E. Manninen, T. Petäjä, **H. Timonen**; Impact of noise barriers on traffic-related pollutant concentrations along a major highway, European Aerosol Conference, 25.8-1.9.2024, Tampere, Finland.
 6. A. Kousa, J.V. Niemi, T.Mäkelä, A. Julkunen, S. Harni, V. Silvonen, K. Luoma, T. Rönkkö, **H. Timonen**, T. Petäjä⁴, and H.E. Manninen; The effect of a noise fence on air quality near a highway, 14th International conference on Air Quality, Helsinki, May 2024.
 7. **H. Timonen**, N., P. Aakko-Saksa, P. Simonen, L. Barreira, S. Saarikoski, N. Kuittinen, M. Aurela, K. Lehtoranta, J. Keskinen, P. Karjalainen, M. Dal maso, J. Moldanova, L. Ntziachristos, T. Rönkkö; Secondary aerosol formation from shipping: influence of technology, fuel and exhaust after-treatment systems, International Aerosol Conference, Helsinki 13-17.5.2024.
 8. M. Aurela, S. Saarikoski, K. Saarnio, K. Teinilä, J.V. Niemi and **H. Timonen**; sources of trace elements at urban environment in Finland, International Aerosol Conference, Helsinki 13-17.5.2024.
 9. K. Kylämäki, M. Jäppi, L. Markkula, W. Honkisz, L. Salo, H. Lintusaari, T. Lepistö, P. Marjanen, K. Teinilä, L. Barreira, D. Li, L. Simon, M. Aurela, S. Saarikoski, S. Harni, A. Järvinen, H. Kuutti, R. Ashger, S. Farhoudian, S. Iyer, A. Kumar, T. Cervena, K. Honkova, M. Vojtisek-Lom, M. Pechout, M. Rissanen, A. Szczotka, P. Bielaczyc, J. Topinka, **H. Timonen**, P. Aakko-Saksa, T. Rönkkö; Secondary Aerosol Emissions From Diesel and Natural Gas Vehicles, 27th ETH Nanoparticles Conference June 10-14, 2024, ETH Zurich.
 10. Teemu Lepistö, Luis M.F. Barreira, Henna Lintusaari, Jarkko V. Niemi, Ville Silvonen, Laura Salo, Minna Aurela, **Hilkka Timonen**, Pasi Jalava, Sanna Saarikoski, Topi Rönkkö. TUBE Partners Contribution of local ultrafine particle emissions and regional background aerosol on lung deposited surface area (LDSA) of particles in Finland, Central Europe, India and Chile. European Aerosol Conference, Malaga 2023.
 11. **H. Timonen**, S. Harni, M. Aurela, K. Teinilä, J.V. Niemi, L. Pirjola, T. Rönkkö, L.M.F. Barreira, S. Saarikoski. Characterizing size distributions of particles at the different urban environments, European Aerosol Conference, Malaga, 09/2023
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 15. Harni, S., Luoma, K., Elomaa, T., Petäjä, T., **Timonen, H.** Detecting small-scale spatial differences in black carbon concentrations using BC sensor network, submitted to 13th International Conference on Carbonaceous Particles in the Atmosphere, Berkeley National Lab, July 9–12, 2023.
 16. Aurela, M., Teinilä, K., Saarikoski, S., Julkunen, A., Niemi, J., Pirjola, L., **Timonen, H.** Sources of carbonaceous aerosol at the street canyon site over the years 2015-2022 in Helsinki, Finland. submitted to 13th International Conference on Carbonaceous Particles in the Atmosphere, Berkeley National Lab, July 9–12, 2023.

17. **Timonen, H.**, Petit, J-E., et al., Near real-time source apportionment of carbonaceous aerosols in 13 sites across Europe, EGU conference, oral presentation, 04/2023.
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