

List of publications

Mari Kauhaniemi

18.11.2014

Articles in refereed scientific journals

1. Kauhaniemi M., Stojiljkovic A., Pirjola L., Karppinen A., Härkönen J., Kupiainen K., Kangas L., Aarnio M.A., Omstedt G., Denby B.R., Kukkonen J. 2014. Comparison of the predictions of two road dust emission models with the measurements of a mobile van. *Atmos. Chem. Phys.*, 14, 9155-9169, 2014, doi:10.5194/acp-14-9155-2014.
2. Soares J., Kousa A., Kukkonen J., Matilainen L., Kangas L., Kauhaniemi M., Riikonen K., Jalkanen J.-P., Rasila T., Hänninen O., Koskentalo T., Aarnio M., Hendriks C., and Karppinen A. 2014. Refinement of a model for evaluating the population exposure in an urban area, *Geoscientific Model Development (GMD)*, 7, 1855-1872, doi:10.5194/gmd-7-1855-2014.
3. Denby, B.R., Sundvor, I., Johansson, C., Pirjola, L., Ketznel, M., Norman, M., Kupiainen, K., Gustafsson, M., Blomqvist, G., Kauhaniemi, M., Omstedt, G. 2013. A coupled road dust and surface moisture model to predict non-exhaust road traffic induced particle emissions (NORTRIP). Part 2: surface moisture and salt impact modelling. *Atmospheric Environment* 81, 485-503
4. Kauhaniemi M., Kukkonen, J., Härkönen, J., Nikmo, J., Kangas, L., Omstedt, G., Ketznel, M., Kousa, A., Haakana, M., and Karppinen, A. 2011. Evaluation of a road dust suspension model for predicting the concentrations of PM10 in a street canyon. *Atmospheric Environment*, 45(22), pp. 3646-3654, doi.org/10.1016/j.atmosenv.2011.04.055
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6. Hellèn, H., Hakola, H., Haaparanta, S., Pietarila, H. and Kauhaniemi, M., 2008. Influence of residential wood combustion on local air quality, *Sci. Tot. Env.* 393 (2-3), pp. 283-290.
7. Kauhaniemi, M., Karppinen, A., Härkönen, J., Kousa, A., Alaviippola, B., Koskentalo, T., Aarnio, P., Elolähde, T. and Kukkonen, J., 2008. Evaluation of a modelling system for predicting the concentrations of PM2.5 in an urban area. *Atmospheric Environment* 42 (19), pp. 4517-4529, doi:10.1016/j.atmosenv.2008.01.071.
8. Hellén H., Kukkonen J., Kauhaniemi M., Hakola H., Laurila T. and Pietarila H., 2005. Evaluation of atmospheric benzene concentrations in the Helsinki Metropolitan Area in 2000-2003 using diffusive sampling and atmospheric dispersion modelling. *Atmospheric Environment* 39(22), pp. 4003-4014.

Conference publications

9. Kauhaniemi M., Stojiljkovic A., Pirjola L., Karppinen A., Härkönen J., Kupiainen K., Kangas L., Aarnio M.A., Omstedt G., Denby B.R., Kukkonen J. Can the predictions of road dust emission models be directly compared with on-site mobile measurements? In: Mitto, Tonio, Joachim Fallmann, Urszula Mikolajczyk, Peter Suppan, Vikas Singh and Ranjeet S. Sokhi (editors), Proceedings of the 9th International Conference on Air Quality - Science and Application, Garmisch-Partenkirchen, Germany, 24-28 March 2014, Published by Cityprint, Garmisch-Partenkirchen, p. 160. <http://www.airqualityconference.org/proceeding>
10. Soares, Kousa A., Kukkonen J., Matilainen L., Kangas L., Aarnio M., Kauhaniemi M., Riikonen K., Jalkanen J.-P., Rasila T., Hänninen O., Koskentalo T. and Karppinen A. 2014. An improved model for evaluating the urban population exposure. In: Mitto, Tonio, Joachim Fallmann, Urszula Mikolajczyk, Peter Suppan, Vikas Singh and Ranjeet S. Sokhi (editors), Proceedings of the 9th International Conference on Air Quality - Science and Application, Garmisch-Partenkirchen, Germany, 24-28 March 2014, Published by Cityprint, Garmisch-Partenkirchen, p. 159.
11. Aarnio M. A., Kangas L., Kauhaniemi M., Karppinen A., Kousa A., Petäjä T., Hendriks C., Kukkonen J., 2014. Modelling of particulate matter concentrations in the Helsinki metropolitan area In 2008 and 2010. In: Mitto, Tonio, Joachim Fallmann, Urszula Mikolajczyk, Peter Suppan, Vikas Singh and Ranjeet S. Sokhi (editors), Proceedings of the 9th International Conference on Air Quality - Science and Application, Garmisch-Partenkirchen, Germany, 24-28 March 2014, Published by Cityprint, Garmisch-Partenkirchen, p. 167.
12. Kauhaniemi Mari, Jaakko Kukkonen, Jari Härkönen, and Ari Karppinen. 2012. An operational urban scale air quality forecasting system: systematic evaluation and research needs. Abstract and presentation at 4th International Workshop on Air Quality Forecasting Research (IWAQFR), 12-14 December 2012, WMO Secretariat Geneva, Switzerland, (<http://mce2.org/wmogurme/component/?view=article&id=60:4th-international-workshop-on-air-quality-forecasting-research-iwaqfr&catid=7:workshops>)
13. Denby B. R. , Sundvor I., Johansson C., Kauhaniemi M., Ketznel M., Norman M., Kupiainen K., Gustafsson M., Blomqvist G., 2012. A coupled road dust and surface moisture model for calculating traffic induced emissions from road wear, salting and sanding. Air Quality 2012 Conference Athens, Greece
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15. Härkönen J, Pirjola L, Kupiainen K, Kauhaniemi M, Kangas L, Karppinen A. 2011. Influence of vehicle dynamics on the non-exhaust PM-emission process. Extended abstract H14-220. In: Barzis, J., Syrakos, A and Andronopuluos, S. (eds.). Proceedings of 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Kos Island, Greece, 2-6 October 2011, pp. 564-568. (<http://www.harmo14.gr/>).
16. Kauhaniemi M., Kukkonen J., Härkönen J., Nikmo J., and Karppinen A. 2011. Development and evaluation of the local air quality forecast system. Extended abstract H14-218. In: Barzis, J., Syrakos, A and Andronopuluos, S. (eds.). Proceedings of 14th International

Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Kos Island, Greece, 2-6 October 2011, 5 p. (<http://www.harmo14.gr/>).

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18. Härkönen J, Pirjola L, Kupiainen K, Kauhaniemi M, Kangas L, Karppinen A. 2011. Mean dependence of non-exhaust PM emissions on vehicle speed. 2011. Abstract to NOSA & FAAR: Tampere, Finland, November 9-11, 1 p.
19. Kauhaniemi M., Kukkonen J., Härkönen J., Nikmo J., Kangas L., Omstedt G., Ketznel M., Kousa A., Haakana M., Karppinen A. 2010. Evaluation of a road dust suspension model for predicting the concentrations of PM10 in a street canyon in Helsinki. Road dust – health effects and abatement strategies. Stockholm, 18-19 October 2010. Abstract, http://gpc.slb.nu/register/?page_id=151.
20. Kauhaniemi Mari, Kukkonen Jaakko, Härkönen Jari, Nikmo Juha, Kangas Leena, Omstedt Gunnar, Ketznel Mathias, Kousa Anu, Haakana Mervi, Karppinen Ari. 2010. Evaluation of a vehicular suspension model for predicting the concentrations of PM10 in urban environments. International Aerosol Conference 2010, Helsinki, 29 Aug - 3 Sep 2010. Abstract P3U10, <http://www.atm.helsinki.fi/IAC2010/abstracts/abstbook.html>.
21. Hänninen Otto, Kauhaniemi Mari, Karppinen Ari, Kukkonen Jaakko, Kousa Anu and Jantunen Matti M. 2009. Application of a Probabilistic Population Exposure Model for the Inter-comparison of Exposure Distributions in the Course of Selected PM2.5 Episodes in Helsinki, and Evaluation against Measured Data. In: Rong-Ming Hu et al. (Eds.), Proceedings of Abstracts of the 7th International Conference on Air Quality – Science and Application, Istanbul, 24-27 March 2009. Published by the University of Hertfordshire, 2009. p. 227.
22. Hänninen Otto, Kauhaniemi Mari, Karppinen Ari, Kukkonen Jaakko, Kousa Anu and Jantunen Matti. 2009. Application of a probabilistic population exposure model for the inter-comparison of exposure distributions in the course of selected PM2.5 episodes in Helsinki, and evaluation against measured data. In: Francis X. V. et al (Eds.). Proceedings of Short Papers, 7th International Conference on Air Quality – Science and Application, Istanbul, 24-27 March 2009. Published by the University of Hertfordshire. pp. 806-809.
23. Härkönen J, Berger J, Kauhaniemi M, Nikmo J, Karppinen A, 2009. Utilization of Meandering in a Receptor-Oriented Solution of the Line Source Dispersion Equation. In: Rauch, S.; Morrison, G.M.; Monzón, Andrés (Eds.): Highway and Urban Environment, Proceedings of the 9th Highway and Urban Environment symposium 9-11 June in Madrid, Spain. Series: Alliance for Global Sustainability Book series , Vol. 17, ISBN: 978-90-481-3042-9
24. Karppinen A, Sofiev M, Prank M, Soares J, Kauhaniemi M, Härkönen J, Kousa A, Siljamo P, Koskentalo T, Aarnio P, Vankevich R, Koskinen J and Kukkonen J. 2009. Evaluation and Application of a Model for the Urban and Regional Scale Concentrations of Particulate Matter. In: Rong-Ming Hu et al. (Eds.), Proceedings of Abstracts of the 7th International Conference on Air Quality – Science and Application, Istanbul, 24-27 March 2009. Published by the University of Hertfordshire, 2009. p. 369.

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29. Kauhaniemi M., Karppinen A., Härkönen J., Kousa A., Koskentalo T., Aarnio P. and Kukkonen J., 2007. Modelling the PM_{2.5} concentrations in urban areas: refinement of a modelling system for evaluating the long-range transported contributions and for forecasting in time. In: Sokhi, R.S., Neophytou, M. (eds.): Abstracts of the Urban Air Quality Conference 6, Cyprus, 27-29 March 2007, p. 255 (1p).
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32. Aarnio P., Kousa A., Karppinen A., Riikonen K., Alaviippola B., Kauhaniemi M., Kukkonen J., Elolähde T., Koskentalo T., 2006. How to Use a Spatial -Temporal Population Exposure Model – Views of a Local Authority. In: Proc. of the International Conference on Environmental Epidemiology & Exposure, Paris. 2-6 September 2006. 1 p.
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35. Paatero J, Makkonen U, Kauhaniemi M, Salmi T, Stebel K, and Grekelä I, 2006. Effects of the Pechenganikel Smelter to Air Quality in the Finnish-Norwegian-Russian Border Area. In: Proc. Of the Int. Conference 10-12 October 2006, Apatity. Part 2. Russian Academy of Sciences – Kola Science Centre, Apatity, Russia, 2006. p. 223-227.
36. Hellén H., Kukkonen J., Kauhaniemi M., Hakola H., Laurila T., and Pietarila H., 2005. Evaluation of atmospheric benzene concentrations in the Helsinki Metropolitan Area in 2000-2003. Proceedings of the 10th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Sissi, Crete, October 2005.
37. Hänninen O., Kauhaniemi M., Karppinen A., Kousa A., Aarnio P., Kukkonen J., and Jantunen M. 2005: Tailpipe-PM_{2.5} Exposure Distributions In Helsinki In 2002 And 2025. Proceedings of the 15th Annual Conference of the International Society of Exposure Analysis, Tucson, (1 page) Oct 30th – Nov 3rd 2005.
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39. Karppinen A., Kauhaniemi M., Härkönen J., Kukkonen J., Kousa A., Koskentalo T., 2005. Evaluation of a model for predicting fine particle concentrations. Abstract book of the conference: 2005 AAAR Particulate Matter Supersites Program and Related Studies. Abstract 10C-3, p.84. (<http://www.aaar.org/PMAbstractBookDec29fnl.pdf>)
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42. Kousa A, Aarnio P, Kukkonen J, Riikonen K, Alaviippola B, Kauhaniemi M, Karppinen A, Elolähde T, Koskentalo T. 2005. Refinement of a deterministic population exposure model, and its application for predicting the exposures of PM_{2.5} in Helsinki in 2002, In: Sokhi, R.S., Millán, M.M., Moussiopoulos, N. (Eds.): Proc. (CD) of the 5th Int. Conference on Urban Air Quality, Valencia, 29-31 March 2005, University of Hertfordshire, UK, 2005. ISBN 1-898543-92-5. (4 pages).
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46. Karppinen, A., Kauhaniemi, M., Härkönen, J., Kukkonen, J., Kousa, A., Alaviippola, B., and Koskentalo, T., 2004. Evaluation of a PM_{2.5} model in Helsinki Metropolitan Area. In: Proceedings of the NOSA Aerosol Symposium, Stockholm, Sweden, 11-12 Nov 2004, pp.43-44. (http://www.itm.su.se/nosa2004/dokument/NOSA2004%20Proceedings_final.pdf)
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Other scientific publications

48. Salmi, J., Kauhaniemi, M. ja Lovén, K. 2014. Ilmanlaatuselvitys. Liikenteen typenoksidi- ja hiukkaspäästöjen leviämismallinnus valtatie 13 varrella välillä Lappeenranta-Nuijamaa. Ilmatieteen laitos, Asiantuntijapalvelut ilmanlaatu ja energia, Helsinki, 30 s. + 24 liitesivua, 26.6.2014
49. Birgitta Komppula, Jatta Salmi, Timo Rasila, Mari Kauhaniemi, Katja Lovén. 2013. Biopolttoaineiden käytön lisäyksen vaikutus Kuopion ilmanlaatuun vuonna 2020. Autoliikenteen, Haapaniemen voimalaitoksen ja kiinteistökohtaisen lämmityksen päästöjen leviämismallinnus. Ilmatieteen laitos, Ilmanlaadun asiantuntijapalvelut, Helsinki, 52 s. + 61 liitesivua, 31.12.2013
50. Jatta Salmi, Mari Kauhaniemi, Katja Lovén, 2013. Liikenteen typenoksidi- ja pienhiukkaspäästöjen leviämismallinnus Lappeenrannan IsoKristiina-kauppakeskuksen lähialueella, Ilmatieteen laitos - ilmanlaadun asiantuntijapalvelut, Helsinki, 26 s. + 4 liitesivua, 20.6.2013
51. Denby B R, Sundvor I. in collaboration with: Johansson C, Kauhaniemi M, Härkönen J, Kukkonen J, Karppinen A, Kangas L, Omstedt G, Ketzl M, Pirjola L, Norman M, Gustafsson M, Blomqvist G, Bennet C, Kupiainen K, Karvosenoja N. 2012. NORTRIP model development and documentation: NOn-exhaust Road TRaffic Induced Particle emission modelling. Kjeller, NILU (NILU OR, 23/2012). (<http://www.nilu.no>)
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54. Jatta Salmi, Birgitta Alaviippola, Hanna Hannuniemi, Katja Lovén, Risto Pesonen, Mari Kauhaniemi, 2011. Riihimäen ilmanlaatuselvitys. Energiantuotannon, teollisuuden ja autoliikenteen typenoksidi- ja hiukkaspäästöjen leviämislaskelmat, Ilmatieteen laitos – ilmanlaadun asiantuntijapalvelut, 32 s. + 27 liitettä, Helsinki 26.1.2011
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