

Publications

Name Camilla Margareta Andersson

Publication statistics (Mar 2019)

Total number of peer-reviewed publications: 27 (Web of Science); 28 (in total)

h-index: 12 (Web of Science)

Average citations per publication: 17.65 (Web of Science)

Total number of citations: 459 (Web of Science)

Peer-reviewed articles (2007-2019):

- 2019 *Im et al. Contributions of Nordic anthropogenic emissions on air pollution and premature mortality over the Nordic region and the Arctic. Submitted to atmospheric chemistry and physics.*
- 2019 *Klingberg, J., Karlsson, P.E., Andersson, C., et al. Observed annual surface ozone maximum and minimum in central and northern Europe – latitude dependence and temporal trends. Submitted to atmospheric environment.*
- 2019 *Ciarelli, G., Colette, A., Schucht, S., Beekmann, M., Andersson, C., et al. Long-term health impact assessment of total PM_{2.5} in Europe during the 1990-2015 period. Submitted to Atmospheric Environment.*
- 2019 *Orru, H., Åström, C., Andersson, C., et al. Climate, population and emission change to affect the share of ozone and heat related mortality in Europe by 2015. Submitted to J. Epidem. & Comm. Health.*
- 2019 Theobald, M., Vivanco, M.G., Aas, W., **Andersson, C.**, et al. An evaluation of European nitrogen and sulfur wet deposition and their trends estimated by six chemistry transport models for the period 1990-2010. *Atmospheric Chemistry and Physics* 19, 379-405, doi: 105194/acp-19-379-2019.
Number of citations: 0.
- 2018 Otero, N., Sillman, J., Mar., K.A., Rust, H.W., Solberg, S., **Andersson, C.**, et al. A multi-model comparison of meteorological drivers of surface ozone over Europe. *Atmos. Chem. and Phys.*, 18, 12269-12288. <https://doi.org/10.5194/acp-18-12269-2018>
Number of citations: 1.
- 2018 Vivanco, M.G., Theobald, M.R., Garcia-Gomez, H., Garrido, J.L., Prank, M., Aas, W., Adani, M., Alyuz, U., **Andersson, C.**, et al. Modelled deposition of nitrogen and sulfur in Europe estimated by 14 air quality model-systems: Evaluation, effects of changes in emissions and implications for habitat protection. *Atmos. Chem. Phys.*, 18, 10199-10218, <https://doi.org/10.5194/acp-18-10199-2018>.
Number of citations: 6.
- 2017 **Andersson, C.**, Alpfjord, H., Robertson, L., Karlsson, P.E. and Engardt, M. Reanalysis of and attribution to near-surface ozone concentrations in Sweden during 1990-2013. *Atmos. Chem. Phys.* 17, 13869-13890, <https://doi.org/10.5194/acp-17-13869-2017>.
Number of citations: 1.
- 2017 Colette, A., **Andersson, C.**, et al., EURODELTA-Trends, a multi-model experiment of air quality hindcast in Europe over 1990-2010. *Geosci. Model Dev.* 10, 3255-3276, doi.org/10.5194/gmd-10-3255-2017.
Number of citations: 8.
- 2017 Åström, C., Oudin Åström, D., **Andersson, C.** et al. Vulnerability reduction needed to adapt to projected future heat exposure in Europe - Magnitude and determinants. *Int. J.*

- Environ. Res. Pub. Health (IJERPH) 14, 741, doi:10.3390/ijerph4070741.
Number of citations: 5.
- 2017 Lacressonnière, G. Watson, L., Gauss, M., Engardt, M., **Andersson, C.**, Beekmann, M., Colette, A., Foret, G., Josse, B., Marécal, V., Nyiri, A., Siour, G., Sobolowski, S., Vautard, R., Particulate matter air pollution in Europe in a +2 °C warming world. *Atmos. Environ.* 154, 129-140, doi: 10.1016/j.atmosenv.2017.01.037.
Number of citations: 4.
- 2017 Karlsson, P.E., Klingberg, J., Engardt, M., **Andersson, C.**, Langner, J., Pihl Karlsson, G. and Pleijel, H. Past, present and future concentrations of ground-level ozone and potential impacts on ecosystems and human health in northern Europe. *Science of the total Environment* 576, 22-35.
Number of citations: 23.
- 2016 Lacressonniere, G., Foret, G., Beekmann, M., Siour, G., Engardt, M., Gauss, M., Watson, L., **Andersson, C.**, Colette, A., Josse, B., Marécal, V., Nyiri, A. and Vautard, R. Impacts of regional climate change on air quality projections and associated uncertainties. *Climatic Change* 136, 2, 309-324. Doi: 10.1007/s10584-016-1619-z.
Number of citations: 12.
- 2016 Markakis, K., Valari, M., Engardt, M., Lacressonniere, G., Vautard, R. and **Andersson, C.** Mid-21st century air quality at the urban scale under the influence of changed climate and emissions. Case studies for Paris and Stockholm. *Atmospheric Chemistry and Physics* 16, 4, 1877-1894. doi:10.5194/acp-16-1877-2016
Number of citations: 3.
- 2016 Soares, J., Sofiev, M., Geels, C., Christensen, J.H., **Andersson, C.**, Tsyro, S. and Langner, J. Impact of climate change on the production and transport of sea salt aerosol on European seas. *Atmos. Chem. Phys.* 16, 13081-13104.
Number of citations: 1.
- 2016 Watson, L., Lacressonniere, G., Gauss, M., Engardt, M., **Andersson, C.**, Josse, B., Marécal, V., Nyiri, A., Sibolowski, S., Siour, G., Szopa, S. and Vautard, R. Impacts of emissions and +2C climate change upon future ozone and nitrogen dioxide over Europe. *Atmospheric Environment* 142, 271-285, doi:10.1016/j.atmosenv.2016.07.051.
Number of citations: 6
- 2015 **Andersson, C.**, Bergström, R., Bennet, C., Robertson, L., Thomas, M., Korhonen, H., Lehtinen, K. and Kokkola, H. MATCH-SALSA – Multi-scale Atmospheric Transport and CHemistry model coupled to the SALSA aerosol micropysics model. Part 1 – model description and evaluation. *Geosci Model Develop* 8, 171-189.
Number of citations: 13
- 2015 Colette, A., **Andersson, C.** et al. Is the ozone climate penalty robust in Europe? *Environ. Res. Lett.* 10, 084015.
Number of citations: 11.
- 2015 Geels, C., **Andersson, C.**, Hänninen, O., Lansö, A.S., Schwarze, P.E., Skjöth, C.A., Brandt, J. Future premature mortality due to O₃, secondary inorganic aerosols and primary PM in Europe – sensitivity to changes in climate, anthropogenic emissions, population and building stock. *Int J Environ res Public Health* 12 (3), 2837-2869, doi: 10.3390/ijerph120302837.
Number of citations: 14
- 2015 Marécal, V. Peuch, V.-H., **Andersson, C.** et al. A regional air quality forecasting system over Europe: the MACC-II daily ensemble production. *Geosci Model Dev* 8, 2777-2813, doi: 10.5194/gmd-8-2777-2015.
Number of citations: 52

- 2015 Thomas, M., Kahnert, M., **Andersson, C.**, Kokkola, H., Hansson, U., Jones, C., Langner, J. and Devasthale, A. Development of prognostic aerosol-cloud interactions combining a chemistry transport model and a regional climate model. *Geosci Model Develop* 8, 1885-1898.
Number of citations: 2
- 2015 Watson, L., Lacrosoniere, G., Gauss, M., Engardt, M., **Andersson, C.** et.al. The impact of meteorological forcings on gas phase air pollutants over Europe. *Atmospheric Environment* 119, 240-257.
Number of citations: 6
- 2014 Simpson, D., **Andersson, C.**, Christensen, J.H., Engardt, M., Geels, C., Nyiri, A., Posch, M., Soares, J., Sofiev, M., Wind, P. and Langner, J. Impacts of climate and emission changes on nitrogen deposition in Europe: a multi-model study. *Atmosph Chem Phys*. 14, 6995-7017.
Number of citations: 43
- 2013 Jönsson, O., **Andersson, C.**, Forsberg, B. and Johansson, C. "Health impacts and air pollution episodes in Stockholm regional background air due to European source regions" *Boreal Environment Research* 18, 280-302.
<http://www.borenv.net/BER/pdfs/ber18/ber18-280.pdf>
Number of citations: 2
- 2013 Orru, H., **Andersson, C.**, Ebi, K., Langner, J., Åström, C. and Forsberg, B. "Impact of climate change on ozone related mortality and morbidity in Europe." *European Respiratory Journal* 41 (2), 285-294. DOI:10.1183/09031936.00210411
Number of citations: 37
- 2012 Langner, J., Engardt, M. and **Andersson, C.** "European summer surface ozone 1990-2100" *Atmospheric Chemistry and Physics* 12, 10097-10105.
Number of citations: 26
- 2010 **Andersson, C.** and Engardt, M. "European ozone in a future climate – the importance of changes in dry deposition and isoprene emissions." *Journal of Geophysical Research* 115, doi:10.1029/2008JD011690.
Number of citations: 55
- 2009 **Andersson, C.**, Bergström, R. and Johansson, C. "Population exposure and mortality due to regional background PM in Europe – long-term simulations of source-region and shipping contributions." *Atmospheric Environment* 43, 3614-3620.
Number of citations: 36
- 2009 Engardt, M., Bergström, R. and **Andersson, C.** "Climate and emissions changes contributing to changes in near-surface ozone in Europe over the coming decades – Results from model studies." *Ambio* 38(8), 452-458.
Number of citations: 23
- 2009 Langner, J., **Andersson, C.** and Engardt, M. "Atmospheric input of nitrogen to the Baltic Sea basin: Present situation, variability due to meteorology and impact of climate change". *Boreal Environment Research* 14, 226-237.
Number of citations: 23
- 2007 **Andersson, C.**, Langner, J. and Bergström, R. "Interannual variation and trends in air pollution over Europe due to climate variability during 1958–2001 simulated with a regional CTM coupled to the ERA40 reanalysis." *Tellus B* 59 (1), 77-98. doi: 10.1111/j.1600-0889.2006.00196.x
Number of citations: 66
- 2007 **Andersson, C.** and Langner, J. "Inter-annual Variations of Ozone and Nitrogen Dioxide Over Europe During 1958–2003 Simulated with a Regional CTM". *Focus: Water, Air and Soil Pollution*, doi: 10.1007/s11267-006-9088-4.
Number of citations: 3 {not in WoS}

Publically available data sets

O3 REANALYSIS

NS-DEP REANALYSIS

IMPORT

EU-NEPAP

Swedish Environmental Surveillance 1998-2017 (<http://www.smhi.se>)

Peer reviewed reports, books, book chapters and conference proceedings with international Coverage (a selection)

- 2013 **Andersson, C.**, et al. MATCH-SALSA – Multi-scale Atmospheric Transport and CHemistry model coupled to the SALSA aerosol microphysics model. SMHI RMK report no 115. http://www.smhi.se/polopoly_fs/1.34622!RMK%20115.pdf
- 2012 **Andersson, C.**, et al. “A new regional CTM with aerosol dynamics”. *Proceedings of the Air Quality conference in Athens, Greece*.
- 2012 Jönsson, O., **Andersson, C.**, Forsberg, B. and Johansson, C. “Health impact and high air pollution episodes due to major source regions in Europe related to current emission inventories”. *Proceedings of the Air Quality conference in Athens, Greece*.
- 2012 **Andersson, C.**, et al. “Future surface ozone over Europe – precursor emissions will dominate over changes induced by climate change”. *Proceedings of the Air Quality conference in Athens, Greece*.
- 2012 Langner, J., **Andersson, C.** and Engardt, M. Modelling the Impact of Climate Change on Air Pollution over Europe Using the MATCH CTM Linked to an Ensemble of Regional Climate Scenarios. Chapter 103 in Steyn, D.G. and Trini Castelli, S. (eds), Air Pollution Modeling and its Application XXI, NATO Science for Peace and Security Series C: Environmental Security 4. Doi 10.1007/978-94-007-1359-8-103. Springer Science+Business Media B.V..
- 2009 **Andersson, C.** “Air pollution dependency on climate variability and source region - Past, current and Future air pollution scenarios over Europe.” *Doctoral Thesis, Stockholm University. ISBN 978-91-7155-828-2*.

Non peer-reviewed publications with international coverage (a selection)

- 2018 **Andersson, C.**, Alpfjord Wylde, H., Engardt, M. Long-term sulfur and nitrogen deposition in Sweden: 1983-2013 reanalysis. SMHI report in meteorology 163, 102pp.
- 2018 Colette, A., Tognet, F., Letinois, L., Couvidat, F., Alonso del Amo, R.M., Gonzalez Fernandez, I.A., Rabago Juan-Aracil, I., Harmens, H., **Andersson, C.**, Tsyro, S., Manders, A., Mircea, M. Long-term evolution of the impacts of ozone air pollution on agricultural yields in Europe. A modelling analysis for the 1990-2010 period. Eionet report – ETC/ACM 2018/15. Nov 2018.
- 2018 Colette, A., Simone Schucht, Giancarlo Ciarelli, Laurent Létinois, Frédéric Meleux, **Andersson, C.**, C. Cuvelier, A. Manders, K.A. Mar, M. Mircea, M.T. Pay, V. Raffort, S. Tsyro, M. Adani, R. Bergström, B. Bessagnet, G. Briganti, A. Cappelletti, F. Couvidat, M. D'Isidoro, H. Fagerli, N. Ojha, N. Otero, P. Wind. Long-term air quality trends in Europe Fine Particulate Matter (PM2.5) Health Impacts. ETC/ACM Technical Paper 2017/4. April 2018.
http://acm.eionet.europa.eu/reports/docs/ETCACM_TP_2017_4_AQTrendsHIA.pdf

- 2015 Lacressonniere et al. IMPACT2C. Quantifying projected impacts under 2C warming. D8.1. Design and production of an ensemble of air quality simulations and evaluation of health impacts.
- 2015 Andersson, C., Johansson, C., Markakis, K., Valari, M., Delcloo, A., Hamdi, R. Report on the effect of future climate and control policies on air quality in Stockholm, Paris and Brussels. ACCEPTED report. <http://www.acceptedera.eu/>
- 2014 Johansson, C., Andersson, C., Bennet, C., Gidhagen, L., Cyrus, J., Soentgen, J and Gu, J. Report on Low Emission and Congestion Charge Zones in Europe with impact assessment studies for Augsburg, Munich, Berlin and Stockholm. ACCEPTED report. <http://www.acceptedera.eu/>
- 2009 Eriksson, S.-G., **Andersson, C.**, Bergström, R., Forsberg, B., Johansson, C. and Bellander, T. "Health effects due to Regional Air Pollution in Stockholm." *EMFO final report*.
- 2009 **Andersson, C.**, Engardt, M. and Klingberg, J. "Climate change modifies Air Quality." popular science book chapter in Pleijel, H. (ed.) "Air Pollution and Climate Change – two sides of the same coin?" *Swedish EPA, ISBN 978-91-620-1278*.

Reports solely in Swedish (a selection)

- 2017 Alpfjord och **Andersson**; Nationell miljöövervakning med MATCH Sverigesystemet - utvärdering och resultat för åren 2013-2015. SMHI Uppdragsrapport nr 2017/15.; https://www.smhi.se/polopoly_fs/1.117569!/Slutrapport2013-15_M%C3%96.pdf
- 2016 Engardt, M., Alpfjord, H. och **Andersson, C.** PODY-beräkningar med MATCH Sverigesystemet. SMHI meteorologi rapport nr 160.
- 2016 Sjöberg, ... **Andersson** and Josefsson, Nationell luftövervakning. Sakrapport med data från övervakning inom programområde luft t.o.m. 2015. IVL rapport nr C 224 oktober 2016. <http://www.naturvardsverket.se/upload/miljoarbete-i-samhallet/miljoarbete-i-sverige/miljoovervakning/Luft/ivl-rapport-c224-nationell-luft%C3%B6vervakning-sakrapport2015.pdf>
- 2015 **Andersson, C.**, Engardt, M. och Alpfjord, H. Återanalys av marknära ozon i Sverige för perioden 1990-2013. SMHI rapport nr 2015-80.
- 2014 **Andersson, C.**, Södergren, H. och Torstensson, M. Metodförändring och utvärdering av MATCH-Sverigesystemet. SMHI rapport nr 2014-16.
- 2013 Södergren, H., Holmin-Fridell, S., **Andersson, C.** and Persson, C. Nationell miljöövervakning med MATCH-Sverige systemet. *SMHI report*.
- 2011 **Andersson, C.**, m.fl. Halter och deposition av luftföroreningar – Förändring över Sverige från 2010 till 2020 i bidrag från Sverige, Europa och Internationell sjöfart. *SMHI report, Meteorologi Nr 147*.
- 2010 Engardt, M., **Andersson, C.** och Bergström, R. Modellering av Marknära Ozon. Regionala och högupplösta tillämpningar av MATCH. *SMHI report, Meteorologi Nr 145.56 pp*.

Popular science articles/presentations/interviews (a selection)

- 2017 P4 Kristianstad, 2017-09-22 15:45; residential wood combustion; <http://sverigesradio.se/sida/avsnitt/937604?programid=2162>
- 2016 Popular science journal Extract (author Catherine Beijer); vedeldningspartiklar; <http://www.extrakt.se/miljogifter-och-kemikalier/sa-undviker-du-farliga-partiklar-nar-du-eldar/>
- 2016 Popular science article: FORMAS julkalender (author Catherine Beijer); vedeldningspartiklar; <http://www.formas.se/sv/Julkalender/jul-01/>
- 2013 Presentation at the health oriented environmental surveillance meeting in Sweden (HÄMI)

- 2010 Luftmiljö in SMHI årsredovisning (annual report).
2009 Sonesten, L., **Andersson, C.** and Ahlgren, J. "Närsaltsbelastningen, påverkan på människan och klimatet." *Havet 2009*.

Oral presentations at conferences and invited speeches (a selection, posters are excluded)

- 2017 **Andersson, C.**, Engardt, M., Alpfjord, H. Annual Swedish deposition mapping with the MATCH Sweden system. Invited speaker to the WMO GAW meeting in Geneva on Measurement Model Fusion on Total Atmospheric Deposition.
- 2016 **Andersson, C.**, Engardt, M., Alpfjord, H. Near-surface ozone reanalysis during 1990-2013 in Sweden – explaining the trend. Speaker at the TFMM meeting in Utrecht, the Netherlands.
- 2016 **Andersson, C.**, Engardt, M., Alpfjord, H. 24-year reanalysis of regional background surface ozone for Sweden. Speaker at the Air Quality Conference in Milan, Italy.
- 2014 **Andersson, C.**, Engardt, M. and Geels, C. "Changes to the European particle composition during the 21st century" Speaker at the Air Quality conference in Garmish Partenkirchen, Germany.
- 2012 **Andersson, C.**, Engardt, M. and Langner, J. "Future surface ozone over Europe – precursor emissions will dominate over changes induced by climate change" Plenary speaker at the Air Quality conference in Athens, Greece.
- 2011 **Andersson, C.**, Engardt, M. and Langner, J. "Precursor emissions are more important for future European surface ozone than climate change" Oral presentation at the ACCENT + Symposium in Urbino, Italy.
- 2007 **Andersson, C.**, Langner, J and Bergström, R. "Dependence of past air pollution on meteorology over Europe" *Oral presentation at Saltsjöbaden 3 in Gothenburg, Sweden.*