

## Publications

Revised December, 2020

1. Stockwell, C.E., **Coggon, M.M.**, Gkatzelis, G.I., Ortega, J., McDonald, B.C., Peischl, J., Aikin, K., Gilman, J.B., Trainer, M., Warneke, C. (2020) Volatile organic compound emissions from solvent- and water-borne coatings: compositional differences and tracer compound identifications, *Atmos. Chem. Phys. Discuss.*, in review.
2. Nault, B.A., Jo, D.S., McDonald, B.C., Campuzano-Jost, P., Day, D.A., Hu, W., Schroder, J.C., Allan, J., Blake, D.R., Canagaratna, M.R., Coe, H., **Coggon, M.M.**, DeCarlo, P.F., Diskin, G.S., Dunmore, R., Flocke, F., Fried, A., Gilman, J.B., Gkatzelis, G., Hamilton, J.F., Hanisco, T.F., Hayes, P.L., Henze, D.K., Hodzic, A., Hopkins, J., Hu, M., Huey, L.G., Jobson, B.T., Kuster, W.C., Lewis, A., Li, M., Liao, J., Omar Nawaz, M., Peischl, J., Pollack, I.B., Rappengluck, B., Reeves, C.E., Richter, D., Roberts, J.M., Ryerson, T.B., Shao, M., Sommers, J.M., Walega, J., Warneke, C., Weibring, P., Wolfe, G.M., Young, D.E., Yuan, B., Zhang, Q., de Gouw, J.A., Jimenez, J.L. (2020). Anthropogenic Secondary Organic Aerosols Contribute Substantially to Air Pollution Mortality, in review
3. Gkatzelis, G.I., **Coggon, M.M.**, McDonald, B.C., Peischl, J., Gilman, J.B., Aikin, K., Robinson, M., Canonaco, F., Prevot, A., Trainer, M., Warneke, C. (2020) Observations confirm that volatile chemical products are a major source of petrochemical emissions in U.S. cities, in review.
4. Gkatzelis, G.I., **Coggon, M.M.**, McDonald, B.C., Peischl, J., Aikin, K., Gilman, J., Trainer, M., Warneke, C. (2020) Identifying volatile chemical product tracer compounds in U.S. cities, *Environ. Sci. Technol.*, accepted.
5. **Coggon, M.M.**, Gkatzelis, G.I., McDonald, B.C., Gilman, J.B., Abuhassan, N., Aikin, K., Arend, M., Berkoff, T., Campos, T., Gronoff, G., Hurley, J., Isaacman-VanWertz, G., Koss, A.R., Li, M., McKeen, S.A., Moshary, F., Peischl, J., Pospisilova, V., Wilson, A., Wu, Y., Brown, S., Trainer, M., Warneke, C. (2020). The human forest: Volatile chemical products enhance urban ozone. in review.
6. Akheratic, A., He, Y., **Coggon, M.M.**, Koss, A., Hodshire, A., Sekimoto, K., Warneke, C., de Gouw, J., Yee, L., Seinfeld, J., Onasch, T., Herndon, S., Knighton, W., Cappa, C., Kleeman, M., Lim, C., Kroll, J.H., Pierce, J., Jathar, S. (2020). Oxygenated aromatic compounds are important precursors of secondary organic aerosol in biomass burning emissions. *Environ. Sci. Technol.*, 54 (14), 8568-8579, DOI: 10.1021/acs.est.0c01345.
7. Roberts, J.M., Stockwell, C.E., Yokelson, R.J., de Gouw, J., Liu, Y., Selimovic, V., Koss, A.R., Sekimoto, K., **Coggon, M.M.**, Yuan, B., Zarzana, K.J., Brown, S.S., Santin, S., Doerr, S.H., Warneke, C. (2020). The nitrogen budget of laboratory-simulated western U.S. wildfires during the FIREX 2016 Firelab study. *Atmos. Chem. Phys. Discuss.*, 20, 8807-8826, DOI: 10.5194/acp-20-8807-2020.
8. Cappa, C.D., Lim, C.Y., Hagan, D.H., **Coggon, M.M.**, Koss, A.R., Sekimoto, K., de Gouw, J., Onasch, T.B., Warneke, C., Kross, J.H. (2020). Biomass-burning-derived particles from a wide variety of fuels: Part 2: Effects of photochemical aging on particle optical and chemical properties. *Atmos. Chem. Phys. Discs.*, 20, 2511-8532, DOI: 10.5194/acp-20-8511-2020.
9. Shah, R.U., **Coggon, M.M.**, Gkatzelis, G.I., McDonald, B.C., Tasoglou, A., Huber, H., Gilman, J., Warneke, C., Robinson, A.L., Presto, A.A. (2019). Urban oxidation flow reactor measurements reveal significant secondary organic aerosol contributions from volatile emissions of emerging importance, *Environ. Sci. Technol.*, 54 (2), 714-725, DOI:10.1021/acs.est.9b06531.
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12. Lim, C., Hagan, D., Cappa, C., **Coggon, M.M.**, Koss, A., Sekimoto, K., de Gouw, J., Warneke, C., and Kroll, J. (2019). Secondary organic aerosol formation from biomass burning emissions, *Atmos. Chem. Phys.*, 19, 12797-12809, DOI:10.5194/acp-19-12797-2019.
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  18. Sorooshian, A., MacDonald, A.B., Dadashazar, H., Bates, K.H., **Coggon, M.M.**, Craven, J.S., Crosbie, E., Hersey, S.P., Hodas, N., Lin, J.J., Negron Marty, A., Maudlin, L.C., Metcalf, A.R., Murphy, S.M., Prabhakar, G., Rissman, T.A., Shingler, T., Varutbangkul, T., Wang, Z., Woods, R.K., Chaung, P.Y., Nenes, A., Jonsson, H.H., Flagan, R.C., and Seinfeld, J.H. (2018). A Multi-Year Data Set on Aerosol-Cloud-Precipitation-Meteorology Interactions for Marine Stratocumulus Clouds. *Scientific Data*, 5 (180026), 1–13, DOI:10.1038/sdata.2018.26.
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  20. Koss, A.R., Sekimoto, K., Gilman, J.B., Selimovic, V., **Coggon, M.M.**, Zarzana, K.J., Yuan, B., Lerner, B.M., Brown, S.S., Jimenez, J.L., Krechmer, J., Roberts, J.M., Warneke, C., Yokelson, R.J., and de Gouw, J. (2018). Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. *Atmos. Chem. Phys.*, 18, 3,299–3,319, DOI:10.5194/acp-18-3299-2018.
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51. **Coggon, M.M.**, Sorooshian, A., Wang, Z., Metcalf, A.R., Frossard, A.A., Lin, J.J., Craven, J.S., Nenes, A., Jonsson, H.H., Russell, L.M., Flagan, R.C., Seinfeld, J.H. (2012). Ship impacts on the marine atmosphere: insights into the contribution of ship emissions to the properties of marine aerosol and clouds. *Atmos. Chem. Phys.*, 12, 8,439–8,458. DOI:10.5194/acp-12-8439-2012
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\* Indicates co-first authorship

## Book Chapters

1. Schwantes, R.A., McVay, R.C., Zhang, X., **Coggon, M.M.**, Lignell, H., Flagan, R.C., Wennberg, P.O., Seinfeld, J.H. **Advances in Atmospheric Chemistry**, Chapter 1: Science of the Environmental Chamber. Singapore: World Scientific Publishing Co, 2017.

## Select Presentations

1. **Coggon, M.M.**, et al. Connecting laboratory and field measurements of smoke composition to build a framework explaining ozone formation from Western U.S. wildfires measured during FIREX-AQ (invited), Davis, CA, American Geophysical Union - Annual Conference, San Francisco, CA., December, 2020.
2. **Coggon, M.M.**, et al. Updating chemical mechanisms to include the OH oxidation of key reactive biomass burning non-methane organic gases. Atmospheric Chemical Mechanisms Conference (invited), Davis, CA, Nov, 2020.
3. **Coggon, M.M.**. The Human Forest: Volatile Chemical Products Contribute to Urban Air Pollution, NOAA Chemical Sciences Laboratory Seminar, Boulder, CO, February, 2020.
4. **Coggon, M.M.**, Gkatzelis, G., McDonald, B., Gilman, Peischl, J., McKeen, S., Warneke, C. The Human Forest: Volatile Chemical Products Contribute to Urban Air Pollution, EPA Indoor Air Seminar, Washington D.C., February, 2020.
5. **Coggon, M.M.**, Gkatzelis, G., Lim, C., Koss, A., Yuan, B., Hagan, D., Zarzana, K., Gilman, J., Selimovic, V., Krechmer, J., Muller, M., Sekimoto, K., Roberts, J., Wisthaler, A., Brown, S., Yokelson, R., Jimenez, J., Cappa, C., Kroll, J., de Gouw, J., Warneke, C. Box Model Assessments of Biomass Burning Smoke Oxidation and the Interplay Between VOCs, NO<sub>x</sub>, and NO<sub>y</sub>, American Geophysical Union - Annual Conference, San Francisco, CA., December, 2019.
6. **Coggon, M.M.**, Gkatzelis, G., McDonald, B., Gilman, Peischl, J., McKeen, S., Warneke, C. How Emissions from the Indoor Environment Impact Outdoor Air Pollution, AAAS Chemistry in Indoor Environments Symposium, Washington D.C., September, 2019.

7. **Coggon, M.M.**, Deodorant, Cleaning Products, and the Virtue of Smelling Bad: Investigations into Emerging Sources of Air Pollution From Consumer Chemical Products. Atmospheric Sciences Seminar, Texas AM, College Station, TX, April, 2019.
8. **Coggon, M.M.**, Gkatzelis, G., Gilman, J., McDonald, B., Ortega, J., Aikin, K., Peischl, J., Moshary, F., Warneke, C. Significant anthropogenic monoterpene emissions from fragrances and other consumer products in New York City, American Geophysical Union - Annual Conference, Washington D.C., December, 2018.
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