

## Book Chapter

Moffet, R.C., Tivanski, A.V., Gilles, M.K. (2010) Scanning X-ray Transmission Microscopy: Applications in Atmospheric Aerosol Research, Fundamentals and Applications in Aerosol Spectroscopy. Signorell, R., Reid, J.P., Eds., Taylor and Francis Books, Inc., CRC Press, Boca Raton.

## Journal Articles

Schill S., McEwan R.S., Moffet R., Marrero J., MacDonald C., and Winegar E. (2022) Real-world application of open-path UV-DOAS, TDL, and FT-IR spectroscopy for air quality monitoring at industrial facilities. *Spectroscopy*, 37(S11), 18–22, (STI-7736), November 1. Available at <https://www.spectroscopyonline.com/view/real-world-application-of-open-path-uv-doas-tdl-and-ft-ir-spectroscopy-for-air-quality-monitoring-at-industrial-facilities>.

Tomlin J.M., Jankowski K.A., Veghte D.P., China S., Wang P., Fraund M., Weis J., Zheng G., Wang Y., Rivera-Adorno F., Raveh-Rubin S., Knopf D.A., Wang J., Gilles M.K., Moffet R.C., and Laskin A. (2021) Impact of dry intrusion events on the composition and mixing state of particles during the winter Aerosol and Cloud Experiment in the Eastern North Atlantic (ACE-ENA). *Atmospheric Chemistry and Physics*, 21(24), 18123-18146.

Knopf D.A., Barry K.R., Brubaker T.A., Jahl L.G., Jankowski K.A., Li J., Lu Y., Monroe L.W., Moore K.A., Rivera-Adorno F.A., Saucedo K.A., Shi Y., Tomlin J.M., Vepuri H.S.K., Wang P., Lata N.N., Levin E.J.T., Creamean J.M., Hill T.C.J., China S., Alpert P.A., Moffet R.C., Hiranuma N., Sullivan R.C., Fridlind A.M., West M., Riemer N., Laskin A., DeMott P.J., and Liu X. (2021) Aerosol–ice formation closure: a Southern Great Plains field campaign. *Bulletin of the American Meteorological Society*, 102(10), E1952-E1971.

Wang Y., Zheng G., Jensen M.P., Knopf D.A., Laskin A., Matthews A.A., Mechem D., Mei F., Moffet R., Sedlacek A.J., Shilling J.E., Springston S., Sullivan A., Tomlinson J., Veghte D., Weber R., Wood R., Zawadowicz M.A., and Wang J. (2021) Vertical profiles of trace gas and aerosol properties over the eastern North Atlantic: variations with season and synoptic condition. *Atmospheric Chemistry and Physics*, 21(14), 11079-11098.

Wang J., Wood R., Jensen M.P., Chiu J.C., Liu Y., Lamer K., Desai N., Giangrande S.E., Knopf D.A., Kollias P., Laskin A., Liu X., Lu C., Mechem D., Mei F., Starzec M., Tomlinson J., Wang Y., Yum S.S., Zheng G., Aiken A.C., Azevedo E.B., Blanchard Y., China S., Dong X., Gallo F., Gao S., Ghate V.P., Glienke S., Goldberger L., Hardin J.C., Kuang C., Luke E.P., Matthews A.A., Miller M.A., Moffet R., Pekour M., Schmid B., Sedlacek A.J., Shaw R.A., Shilling J.E., Sullivan A., Suski K., Veghte D.P., Weber R., Wyant M., Yeom J., Zawadowicz M., and Zhang Z. (2021) Aerosol and cloud experiments in the Eastern North Atlantic (ACE-ENA). *Bulletin of the American Meteorological Society*, 1-51, doi: doi.org/10.1175/BAMS-D-19-0220.1.

Moffet R.C., Wang J., Laskin A., Gilles M.K., and Knopf D. (2019) Chemical imaging of atmospheric organic particles in the eastern North Atlantic. Final campaign report prepared for the U.S. Department of Energy, Washington D.C. by Sonoma Technology, Petaluma, CA, STI-918064-7098, March.

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## Meeting Presentations, Webinars, and Conference Proceedings

- Fraund M., Wong B., Charnawskas J., Wang P., Cao C., Tomlin J., China S., Veghte D., Aller J., Knopf D., Gilles M., Laskin A., and Moffet R. (2023) Characterization of cloud condensation nuclei over the eastern North Atlantic. Poster presented at the International Conference on Carbonaceous Particles in the Atmosphere in Berkeley, CA, by Stony Brook University, Purdue University, Pacific Northwest National Lab, Ohio State University, Lawrence Berkely National Laboratory, and Sonoma Technology, Inc., STI-7935, July.

- Schill S., Marrero J., Moffet R., McEwan S., and McDonald C. (2022) Complementary and emerging techniques for fenceline monitoring. Presentation given at the *Air Sensors International Conference, Pasadena, CA, May 13, 2022*, by Sonoma Technology, Petaluma, CA. STI-7623.
- Moffet R.C., Marrero J.E., McEwan R.S., MacDonald C., and Roberts P.T. (2022) Minimum detection limit calculations for open-path measurements. Presentation given at the *ASTM Workshop on Ambient Air Fenceline Monitoring, Seattle, WA, April 28*, by Sonoma Technology, Petaluma, CA. STI-7716.
- MacDonald C.P., Moffet R., Roberts P., Marrero J., and Gibbons R. (2020) Assessment of technology used for refinery air quality Fenceline Monitoring. Presentation given at the *A&WMA's 113th Annual Conference & Exhibition, League City, TX, June 29 - July 2*, by Sonoma Technology, Petaluma, CA. STI-7216.
- Marrero J.E., Roberts P.T., Moffet R.C., and MacDonald C.P. (2020) What have we learned from the first year of refinery fenceline monitoring in California? Presentation given at the *A&WMA 113th Annual Conference & Exhibition, League City, TX, June 29 - July 2*, by Sonoma Technology, Petaluma, CA. STI-7215.
- Craig K., Moffet R., Marrero J., and Roberts P. (2020) Piloting next-generation sensor technology at upstream oil and gas facilities. Presentation given at the *A&WMA 113th Annual Conference and Exhibition (ACE 2020), June 30*, by Sonoma Technology, Petaluma, CA. STI-7212.
- Fraund M., Pham D.Q., Bonanno D.J., Charnawskas J., Harder T.H., Veghte D., Brito J., Sá S.S.d., Carbone S., China S., Pöhlker C., Wang B., Artaxo P., Andreae M.O., Martin S.T., Wang J., Laskin A., Knopf D., Gilles M.K., and Moffet R.C. (2019) Aerosol elemental and molecular mixing state measurements via multimodal x-ray and electron microscopy. Poster presented at the *American Geophysical Union Fall Meeting, San Francisco, CA, December 9-13*, by Sonoma Technology, Petaluma, CA. STI-7158.
- Moffet R., Bonanno D., Fraund M., Wong B., Charnawskas J., Wang P., Marrero J., and others (2019) Individual particle characterization of the carbon content of aerosols collected in the eastern north Atlantic. Poster presented at the *2019 Atmospheric Systems Research Annual Meeting, Rockville, Maryland, June 10-13*, by Sonoma Technology Inc., Petaluma, CA; University of the Pacific, Stockton, CA; State University of New York, Stony Brook, NY; Purdue University, West Lafayette, IN; Pacific Northwest National Laboratory, Environmental and Molecular Sciences Laboratory, Richland, WA; Lawrence Berkeley National Laboratory, Berkeley, CA STI-7124.
- Craig K., Moffet R., Marrero J., and Roberts P. (2019) Piloting next-generation sensor technology at upstream oil and gas facilities. Webinar presented to the Petroleum Technology Alliance of Canada (PTAC), February 28, by Sonoma Technology, Petaluma, CA. STI-917057-7081.
- Moffet R., Bonanno D., Fraund M., Wong B., Tomlin J., Su P., Marrero J., Knopf D., and Laskin A. (2019) Individual particle characterization of the carbon content of aerosols collected in the Eastern North Atlantic. Presented at the *ACE-ENA Workshop (Aerosol and Cloud Experiments in the Eastern North Atlantic), Brookhaven National Laboratory, Upton, NY, January 29*, by Sonoma Technology, Inc., University of the Pacific, State University of New York, and Purdue University. STI-918064-7056.

## Formal Reports

- Anderson A. and Moffet R. (2023) Chevron Richmond Q1 Report: April - June 2023. Quarterly report prepared for Chevron Products Company, Richmond, CA by Sonoma Technology, Petaluma, CA, STI-7971, August 21.
- Scarborough C.R., Schill S., and Moffet R. (2023) Chevron El Segundo Q2 Report: April - June 2023. Quarterly report prepared for Chevron Products Company, El Segundo, CA by Sonoma Technology, Petaluma, CA, STI-7975, August 21.
- King D. and Moffet R.C. (2023) Valero Benicia Q2 Report: April - June 2023. Quarterly report prepared for Valero Refining Company - CA, Benicia Refinery, Benicia, CA by Sonoma Technology, Petaluma, CA, STI-7969, August 16.
- Moffet R.C. and King D. (2023) Valero Benicia Q1 Report: January – March 2023. Quarterly report prepared for Valero Refining Company, Benicia, CA by Sonoma Technology, Petaluma, CA, STI-923002-7915, May.
- Moffet R.C. and King D. (2023) Valero Benicia Q4 Report: October – December 2022. Quarterly report prepared for Valero Refining Company, Benicia, CA by Sonoma Technology, Petaluma, CA, STI-923002-7849, April.
- Moffet R.C. and Gostic C. (2022) Valero Benicia Q3 Report: July – September 2022. Quarterly report prepared for Valero Refining Company, Benicia, CA by Sonoma Technology, Petaluma, CA, STI-922002-7815, November.
- Moffet R.C., Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Fenceline air monitoring plan and quality assurance project plan for BAAQMD Rule 12-15, 2022 update. Prepared for Chevron Refinery, Richmond, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-922008-7170, June 1.
- Moffet R.C., Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Martinez Refinery air monitoring plan and quality assurance project plan, 2022 update. Prepared for Tesoro Refining & Marketing Co., Martinez, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-921012-7028, June 1
- Moffet R.C., Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Air monitoring plan and quality assurance project plan for the Valero Refinery in Benicia, California, 2022 update. Prepared for Valero Benicia Refinery, Benicia, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-922002-6990, June 1.
- Schill S.R. and Moffet R.C. (2022) Chevron El Segundo Q4 Report: October-December 2021 Final report prepared for Chevron Products Company, El Segundo, CA by Sonoma Technology, Inc., Petaluma, CA, STI-921008-7679, February 25.
- Schill S.R. and Moffet R.C. (2021) Chevron El Segundo Q3 Report: July-September 2021. Final report prepared for Chevron El Segundo, El Segundo, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-921008-7635, November.
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