

Journal Articles

- Deng J., Guo L., Salas W., Ingraham P., Charrier-Klobas J.G., et al. (2022) A decreasing trend in nitrous oxide emissions from California cropland from 2005 to 2015. *Earth's Future*, 10(4).
- Kuwayama T., Charrier-Klobas J.G., Chen Y., et al. (2019) Source apportionment of ambient methane enhancements in Los Angeles, California, to evaluate emission inventory estimates. *Environmental Science and Technology*, 53(6).
- Deng J., Guo L., Salas W., Ingraham P., Charrier-Klobas J.G., et al. (2018) Changes in irrigation practices likely mitigation nitrous oxide emissions from California cropland. *Global Biogeochemical Cycles*, 32(29).
- Charrier J.G., McFall A.S., et al (2016) A bias in the "mass-normalized" DTT response – An effect of non-linear concentration-response curves for copper and manganese. *Atmospheric Environment*, 144.
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- Charrier J.G., Anastasio C. (2015) Rates of hydroxyl radical production from transition metals and quinones in a surrogate lung fluid. *Environmental Science and Technology* (49)15.
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- Charrier J.G., and Anastasio C. (2012) On Dithiothreitol (DTT) as a measure of oxidative potential for ambient particles: Evidence for the importance of soluble transition metals. *Atmospheric Chemistry and Physics*, 12(19).
- Charrier J.G., and Anastasio C. (2011) Impacts of antioxidants on hydroxyl radical production from individual and mixed transition metals in a surrogate lung fluid. *Atmos. Environ.*, 45, 40, 7555-7562.
- McCarthy M.C., O'Brien T.E., Charrier J.G., and Hafner H.R. (2009) Characterization of the chronic risk and hazard of hazardous air pollutants in the United States using ambient monitoring data. *Environmental Health Perspectives*, 117, 5, 790-796 (doi: 10.1289/ehp.11861; STI-3267). Available on the Internet at <http://www.ehponline.org/docs/2009/11861/abstract.html>.
- McCarthy M.C., Hafner H.R., Chinkin L.R., and Charrier J.G. (2007) Temporal variability of selected air toxics in the United States. *Atmospheric Environment*, 41, 34, 7180-7194 (STI-2894). Available on the Internet at <http://dx.doi.org/10.1016/j.atmosenv.2007.05.037>.

Meeting Presentations and Conference Proceedings

- Charrier J.G., and Anastasio C. (2011) Measuring the oxidative potential of particulate matter. Presented at the EPA STAR Graduate Fellowship Conference, Washington, DC.
- Charrier J.G., and Anastasio C. (2011) Measuring the oxidative potential of particles. Presented at the Annual NorCal SETAC meeting, May 4-5, Sacramento, CA.
- Charrier J.G., and Anastasio C. (2010). Comparison of DTT Consumption with Quantitative Measurements of Hydroxyl Radical Production. Presented at the 29th annual AAAR conference, Portland, OR.
- Charrier J.G., and Anastasio C. (2010) Quantification of Hydroxyl Radical Formation in a Surrogate Lung Fluid Containing Dissolved Organics with and without Dissolved Transition Metals. Presented at the AAAR specialty conference: Air Pollution and Health, San Diego, CA.
- Charrier J.G., and Anastasio C. (2009) Quantification of Hydroxyl Radical Formation in a Surrogate Lung Fluid Containing Dissolved Transition Metals. Presented at the 28th annual AAAR conference, Minneapolis, MN.
- Hafner H.R., Charrier J.G., and McCarthy M.C. (2008) Air Toxics Data Analysis Workbook for a training class at the *Symposium on Air Quality Measurement Methods and Technology, Chapel Hill, NC, November 3-6*, by Sonoma Technology, Petaluma, CA (STI-3446).
- McCarthy M.C., Hafner H.R., and Charrier J.G. (2007) National trends in trace metals concentrations in ambient particulate matter. Presented at the *Fall 2007 American Geophysical Union Conference, San Francisco, CA, December 14*, by Sonoma Technology, Petaluma, CA (STI-3221).
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- Hafner H.R., Charrier J.G., and McCarthy M.C. (2007) Products of Phase V data analysis. Presented at the *Air Toxics Data Analysis Workshop, Rosemont, IL, October 4*, by Sonoma Technology, Petaluma, CA (STI-905306-3236).
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- Baldrige E., Camalier L., Brown B., Wade K., Hafner H., Charrier J., and Turner J. (2006) Tracking and evaluating air quality programs. Presented at the *2006 National Air Monitoring Conference, Las Vegas, NV, November 6-9*, by the U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards; Sonoma Technology, Petaluma, CA; and Washington University, St. Louis, MO.

Formal Reports

- McCarthy M.C., O'Brien T.E., and Charrier J.G. (2011) Estimation of background concentrations for National Air Toxics Assessment (NATA) 2008. Final report prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC by Sonoma Technology, Petaluma, CA, STI-910219-4224-FR, October 4.
- McCarthy M., Charrier J., Brown S., and Hafner H. (2011) Trends analysis update. Prepared for U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, by Sonoma Technology, Petaluma, CA, STI-910219-4205, September 8.
- McCarthy M.C., Charrier J.G., and Brown S.G. (2011) Receptor modeling of VOCs, metals, and PAHs in the Athabasca Oil Sands Region of Alberta. Final report prepared for Alberta Environment, Oil Sands and Clean Energy Policy Branch, Environment Assurance Division, Edmonton, Alberta by Sonoma Technology, Petaluma, CA, STI-910067-4103-FR, March.
- Brown S.G., Charrier J.G., DeWinter J.L., and Minor H.A. (2011) Emissions trends and model predictions of air pollutants in the Athabasca oil sands region of Alberta. Final report prepared for Sunny Cho, Oil Sands and Clean Energy Policy Branch, Environment Assurance Division, Alberta Environment, Edmonton, Alberta, Canada, by Sonoma Technology, Petaluma, California, STI-910067-4114-FR, March 31.
- Charrier J.G., Hafner H.R., Wade K.S., Brown S.G., and MacDonald C.P. (2010) California ambient dioxin air monitoring program 2002 to 2006 data analysis of dioxins, furans, biphenyls, and diphenylethers. Final report 2 prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Petaluma, CA, STI-907024.05-3292-FR2, March.
- Hafner H.R., Charrier J.G., and McCarthy M.C. (2009) Air toxics data analysis workbook. Prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Petaluma, CA, STI-908304-3651-WB, June. Available on the Internet at <http://www.epa.gov/ttnamti1/files/ambient/airtox/workbook/AirToxicsWorkbook6-09.pdf>.
- Brown S.G., Funk T.H., Charrier J., Gilliland E.K., Hafner H.R., and Reid S.B. (2008) Phase II source apportionment findings (extension to the CCOS project "Comparison of ambient measurements to emissions representations for modeling"). Technical memorandum prepared for the California Air Resources Board, Sacramento, CA, by Sonoma Technology, Petaluma, CA, STI-905044.14-3396-TM, June 30.
- McCarthy M.C., Charrier J.G., O'Brien T.E., and Hafner H.R. (2007) Phase V national air toxics data analysis. Compilation of work products prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Petaluma, CA, STI-905306-3234, October.
- McCarthy M.C., Charrier J.G., Rubin J.I., O'Brien T.E., and Hafner H.R. (2007) Southeastern air toxics data analysis. Final report prepared for the Southeastern States Air Resource Managers, Inc., Forest Park, GA, by Sonoma Technology, Petaluma, CA, STI-906021.07-3122-FR, March.
- Brown S.G., Hafner H.R., Charrier J.G., and Alcorn S.A. (2006) Using PM_{2.5} data from the speciation trends network. User's guide prepared for the U.S. Environmental Protection Agency, Research Triangle Park, NC, by Sonoma Technology, Petaluma, CA, 905214.03-3049-UG, October.