

Peer-reviewed publications for Particle-Into-Liquid Sampler (Models 4001 & 4002)

Mwaniki, G. R., Rosenkrance, C., Wallace, H. W., Jobson, B. T., Erickson, M. H., Lamb, B. K., Zalakeviciute, R. and VanReken, T.M., (2014). Factors Contributing to Elevated Concentrations of PM_{2.5} during Wintertime near Boise, Idaho. *Atmospheric Pollut. Res.*, 14:(1), 96–103, doi:10.5094/APR.2014.012.

Price, D.J., Clark, C.H., Tang, X., Cocker, D.R., Purvis-Roberts, K.L., Silva, P.J. (2014). Proposed chemical mechanisms leading to secondary organic aerosol in the reactions of aliphatic amines with hydroxyl and nitrate radicals. *Atmos. Environ.* 96: 135-144, DOI is: 10.1016/j.atmosenv.2014.07.035.

S. Crumeyrolle, G. Chen, M. A. Shook, C. Hudgins, L. Ziemba and B. E. Anderson, A. Beyersdorf (2014). Factors that influence surface PM_{2.5} values inferred from satellite observations: perspective gained for the US Baltimore–Washington metropolitan area during DISCOVER-AQ, *Atmos. Chem. Phys.*, 14: 2139–2153, www.atmos-chem-phys.net/14/2139/2014/ doi:10.5194/acp-14-2139-2014.

T. F. Eck, B. N. Holben, J. S. Reid, A. Arola, R. A. Ferrare, C. A. Hostetler, S. N. Crumeyrolle, T. A. Berkoff, E. J. Welton, S. Lolli, A. Lyapustin, Y. Wang, J. S. Schafer, D. M. Giles, B. E. Anderson, K. L. Thornhill, P. Minnis, K. E. Pickering, C. P. Loughner, A. Smirnov, and A. Sinyuk (2014). Observations of rapid aerosol optical depth enhancements in the vicinity of polluted cumulus clouds, *Atmos. Chem. Phys. Discuss.*, 14: 18785-18848, www.atmos-chem-phys-discuss.net/14/18785/2014/, doi:10.5194/acpd-14-18785-2014.

Longwen Gong, Rafa Lewicki, Robert J. Griffin, Frank K. Tittel, Chantelle R. Lonsdale, Robin G. Stevens, Jeffrey R. Pierce, Quentin G.J. Malloy, Severin A. Travis, Loliya M. Bobmanuel, Barry L. Lefer, James H. Flynn (2014). Role of atmospheric ammonia in particulate matter formation in Houston during summertime, *Atmospheric Environment*, 77: 893-900, doi:10.1016/j.atmosenv.2013.04.079.

Hersey, S. P., J. S. Craven, A. R. Metcalf, J. Lin, T. Lathem, K. J. Suski, J. F. Cahill, H. T. Duong, A. Sorooshian, H. H. Jonsson, M. Shiraiwa, A. Zuend, A. Nenes, K. A. Prather, R. C. Flagan, J. H. Seinfeld (2013). Composition and Hygroscopicity of the Los Angeles Aerosol: CalNex, *J. Geophys. Res.*, 118: doi:10.1002/jgrd.50307.

Ryerson, T. B., et al. (2013). The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study, *J. Geophys. Res.*, 118: 5830–5866, doi:10.1002/jgrd.50331.

Wonaschütz, A., M. Coggon, A. Sorooshian, R. Modini, A. A. Frossard, L. Ahlm, J. Mülmenstädt, G. C. Roberts, L. M. Russell, S. Dey, F. J. Brechtel, and J. H. Seinfeld (2013). Hygroscopic properties of organic aerosol particles emitted in the marine atmosphere, *Atmos. Chem. Phys.*, 13: 9819–9835, doi:10.5194/acp-13-9819-2013.

Youn, J. –S., Z. Wang, A. Wonaschütz, A. Arellano, E. A. Betterton, and A. Sorooshian (2013). Evidence of aqueous secondary organic aerosol formation from biogenic emissions in the North American Sonoran Desert, *Geophys. Res. Lett.*, 40: doi:10.1002/grl.50644.

Craven, J. S., A. R. Metcalf, R. Bahreini, A. Middlebrook, P. L. Hayes, H. T. Duong, A. Sorooshian, J. L. Jimenez, R. C. Flagan, and J. H. Seinfeld (2013). Los Angeles Basin airborne organic aerosol characterization during CalNex, *J. Geophys. Res. Atmos.*, 118: doi:10.1002/jgrd.50853.

- A. Wonaschütz, M. Coggon, A. Sorooshian, R. Modini, A. A. Frossard, L. Ahlm, J. Mülmenstädt, G. C. Roberts, L. M. Russell, S. Dey, F. J. Brechtel, and J. H. Seinfeld (2013). Hygroscopic properties of smoke-generated organic aerosol particles emitted in the marine atmosphere. *Atmos. Chem. Phys.*, 13: 9819–9835, www.atmos-chem-phys.net/13/9819/2013/doi:10.5194/acp-13-9819-2013.
- Metcalf, A. R., J. S. Craven, J. J. Ensberg, A. Sorooshian, H. T. Duong, H. Jonsson, R. C. Flagan, and J. H. Seinfeld (2012). Black carbon aerosol over the Los Angeles Basin during CalNex, *J. Geophys. Res.*, 117: D00V13, [doi:10.1029/2011JD017255](https://doi.org/10.1029/2011JD017255).
- S. Crumeyrolle, L. Ziemba, A. Beyersdorf, L. Thornhill, E. Winstead, G. Chen, J. Schafer, B. Holben, R. Moore, B. Anderson (2012). Reconciling Surface-Based Aerosol Retrievals with In-situ Aircraft Measurements in the Baltimore-Washington Area during DISCOVER-AQ, *Poster presented at the Annual American Association for Aerosol Research (AAAR) Conference, Oct. 2012*.
- A. Setyan, Q. Zhang, C. Song, J. E. Shilling, W. Berk Knighton, M. Merkel, Y. Sun, T. Onasch, M. Canagaratna, S. Herndon, D. Worsnop, B. Flowers, M. Dubey, J. Fast, R. Zaveri, A. Wiedensohler, F. Brechtel, C. D. Kluzek (2011). Characteristics of Submicron Aerosols Influenced by Mixed Biogenic and Anthropogenic Emissions: Results from the Carbonaceous Aerosol Radiative Effects Study (CARES), *Poster presented at the American Geophysical Conference, Dec. 2011*.
- Hersey, S. P., J. S. Craven, K. A. Schilling, A. R. Metcalf, A. Sorooshian, M. N. Chan, R. C. Flagan, and J. H. Seinfeld (2011). The Pasadena Aerosol Characterization Observatory (PACO): chemical and physical analysis of the Western Los Angeles Basin aerosol, *Atmos. Chem. Phys.*, 11: 7417–7443.
- Wonaschütz, A., S. Hersey, A. Sorooshian, J. Craven, A. R. Metcalf, R. C. Flagan, and J. H. Seinfeld (2011). Impact of a large wildfire on water-soluble organic aerosol in a major urban setting: the 2009 Station Fire in Los Angeles County, *Atmos. Chem. Phys.*, 11: 8257–8270.
- Duong, H. T., A. Sorooshian, J. S. Craven, S. P. Hersey, A. R. Metcalf, X. Zhang, R. J. Weber, H. Jonsson, R. C. Flagan, and J. H. Seinfeld (2011). Water-soluble organic aerosol in the Los Angeles Basin and outflow regions: Airborne and ground measurements during the 2010 CalNex field campaign, *J. Geophys. Res.*, 116: D00V04, [doi:10.1029/2011JD016674](https://doi.org/10.1029/2011JD016674).
- A. Sorooshian, M.L Lu, F. J. Brechtel, H. Jonsson, G. Feingold, R. C. Flagan, and J. H. Seinfeld (2007). On the source of organic acid aerosol layers above clouds, *Env. Science & Tech.*, 41:4647-4654.
- C. Fountoukis, A. Nenes, N. Meskhidze, R. Bahreini, W. C. Conant, H. Jonsson, S. Murphy, A. Sorooshian, V. Varutbangkul, F. Brechtel, R. C. Flagan, and J. H. Seinfeld (2007). Aerosol - cloud drop concentration closure for clouds sampled during the ICARTT 2004 campaign. *J. Geophys. Res.*, 112: D10S30, [doi:10.1029/2006JD007272](https://doi.org/10.1029/2006JD007272).
- A. Sorooshian, F. J. Brechtel, Y. Ma, R. J. Weber, A. Corless, R. C. Flagan, and J. H. Seinfeld (2006). Modeling and Characterization of a Modified Particle-into-liquid-Sampler (PILS) Optimized for Aircraft Sampling, *Aerosol Sci. Technol.* 40: 396-409.
- A. Sorooshian, V. Varutbangkul, F. J. Brechtel, B. Ervens, G. Feingold, R. Bahreini, S. Murphy, J. S. Holloway, E. L. Atlas, G. Buzorius, H. Jonsson, R. C. Flagan, and J. H. Seinfeld (2005). Oxalic acid in clear and cloudy atmospheres: Analysis of data from ICARTT 2004, *J. Geophys. Res.*, 111:D23S45, [doi:10.1029/2005JD006880](https://doi.org/10.1029/2005JD006880).

T. A. Rissman, T. M. VanReken, J. Wang, r. Gasparini, D. R. Collins, Yin-Nan Lee, H. H. Jonsson, F. J. Brechtel, R. C. Flagan, and J. H. Seinfeld (2004). Characterization of cloud condensation nuclei (CCN) during the 2003 Atmospheric Radiation Measurement (ARM) Aerosol Intensive Observational Period (IOP) at the Southern Great Plains (SGP) Site in Oklahoma, *J. Geophys. Res.*, 111, D05S11, doi:0.1029/2004JD005695.

R. J. Weber, D. Orsini, Y. Duan, K. Baumann, C. S. Kiang, W. Chameides, Y.N. Lee, F. Brechtel, P. Klotz, P. Jongejan, H.T. Brink, J. Slanina, P. Dasgupta, S. Hering, M. Stolzenburg, E. Edgerton, B. Hartsell, P. Solomon and R. Tanner (2003). Intercomparison of near real-time monitors of PM_{2.5} nitrate and sulfate at the EPA Atlanta supersite. *J. Geophys. Res.*, 108, doi:10.1029/2001JD001220.

R. J. Weber, D. Orsini, Z. Yhuang, Y. N. Lee, P. J. Klotz, and F. J. Brechtel (2001). A Particle-into-Liquid Collector for Rapid Measurement of Aerosol Bulk Chemical Composition. *Aerosol Science and Technology*, 35: 718-727.