

### Sample of Recent or Significant Publications:

Sources and characteristics of summertime organic aerosol in the Colorado Front Range: perspective from measurements and WRF-Chem modeling, R. Bahreini, Ahmadov, R; McKeen, SA; Vu, KT; Dingle, JH; Apel, EC; Blake, DR; Blake, N; Campos, TL; Cantrell, C; Flocke, F; Fried, A; Gilman, JB; Hills, AJ; Hornbrook, RS; Huey, G; Kaser, L; Lerner, BM; Mauldin, RL; Meinardi, S; Montzka, DD; Richter, D; Schroeder, JR; Stell, M; Tanner, D; Walega, J; Weibring, P; Weinheimer, A, *Atmos. Chem. Phys.*, 18 ( 11 ) , 8293-8312, doi: [10.5194/acp-18-8293-2018](https://doi.org/10.5194/acp-18-8293-2018), issn: 1680-7316, 2018.

Modeling Ozone in the Eastern U.S. using a Fuel-Based Mobile Source Emissions Inventory, B.C. McDonald, S.A. McKeen, Y. Cui, R. Ahmadov, S.W. Kim, G.J. Frost, I.B. Pollack, T.B. Ryerson, J.S. Holloway, M. Graus, C. Warneke, J.B. Gilman, J.A. de Gouw, J. Kaiser, F.N. Keutsch, T.F. Hanisco, G.M. Wolfe, M. Trainer, *Environ. Sci. Technol.*, 52 ( 13 ) , 7360-7370, doi: [10.1021/acs.est.8b00778](https://doi.org/10.1021/acs.est.8b00778), 2018.

Volatile chemical products emerging as largest petrochemical source of urban organic emissions BC McDonald, de Gouw, JA; Gilman, JB; Jathar, SH; Akherati, A; Cappa, CD; Jimenez, JL; Lee-Taylor, J; Hayes, PL; McKeen, SA; Cui, YY; Kim, SW; Gentner, DR; Isaacman-VanWertz, G; Goldstein, AH; Harley, RA; Frost, GJ; Roberts, JM; Ryerson, TB; Trainer, M, *Science*, 359 (6377) , 760-764, doi: [10.1126/science.aag0524](https://doi.org/10.1126/science.aag0524), issn: 0036-8075, 2018.

Representing the effects of stratosphere-troposphere exchange on 3-D O<sub>3</sub> distributions in chemistry transport models using a potential vorticity-based parameterization, J Xing, R Mathur, J Pleim, C Hogrefe, JD Wang, CM Gan, G Sarwar, DC Wong and S McKeen, *Atmos. Chem. Phys.:* Vol. 16, 10865-10877, doi: [10.5194/acp-16-10865-2016](https://doi.org/10.5194/acp-16-10865-2016), 2016.

Understanding high wintertime ozone pollution events in an oil and natural gas producing region of the western US, Ahmadov, R., McKeen, S., Trainer, M., Banta, R., Brewer, A., Brown, S., Edwards, P. M., de Gouw, J. A., Frost, G. J., Gilman, J., Helmig, D., Johnson, B., Karion, A., Koss, A., Langford, A., Lerner, B., Olson, J., Oltmans, S., Peischl, J., Pétron, G., Pichugina, Y., Roberts, J. M., Ryerson, T., Schnell, R., Senff, C., Sweeney, C., Thompson, C., Veres, P., Warneke, C., Wild, R., Williams, E. J., Yuan, B., and Zamora, R., *Atmos. Chem. Phys.*, 15, 411-429, doi:10.5194/acpd-15-411-2015, 2015.

Ozone distributions over southern Lake Michigan: comparisons between ferry-based observations, shoreline-based DOAS observations and model forecasts, Cleary, PA, N Fuhrman, L Schulz, J Schafer, J Fillingham, H Bootsma, J McQueen, Y Tang, T Langel, S McKeen, EJ Williams and SS Brown, 2015: *Atmos. Chem. Phys.:* Vol. 15, 5109-5122, doi: [10.5194/acp-15-5109-2015](https://doi.org/10.5194/acp-15-5109-2015), 2015.

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Black carbon emissions from the Bakken oil and gas development region, JP Schwarz, JS Holloway, JM Katich, S McKeen, EA Kort, ML Smith, TB Ryerson, C Sweeney and J Peischl, 2015, *Environ. Sci. Technol. Lett.*, Vol. 2, 281-285, doi: [10.1021/acs.estlett.5b00225](https://doi.org/10.1021/acs.estlett.5b00225), 2015.

Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The South Coast Air Basin., YY Cui, J Brioude, SA McKeen, WM Angevine, SW Kim, GJ Frost, R Ahmadov, J Peischl, N

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Emission ratios of anthropogenic volatile organic compounds in northern mid-latitude megacities: Observations versus emission inventories in Los Angeles and Paris, A. Borbon, J.B. Gilman, W.C. Kuster, et al., *J. Geophys. Res.-Atmos.*, Vol. 118 Issue: 4, 2041-2057, DOI: 10.1002/jgrd.50059, 2013.

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