

Biographical Information for Professor Dan Jaffe

Professional Preparation

Massachusetts Institute of Technology, Cambridge, MA, Chemistry. B.S. 1979

University of Washington, Seattle, WA. Chemistry, M.S. 1983

University of Washington, Seattle, WA. Chemistry, Ph.D. 1987

Appointments

Professor of Science, Technology, Engineering and Mathematics (University of Washington Bothell, Bothell, WA).

Professor of Atmospheric Sciences (University of Washington, Seattle, WA), Sept. 1997–present.

Chair of the Physical Sciences Division, School of STEM, University of Washington Bothell, Bothell, WA, September 2013–2022.

Assistant, Associate, Full Professor of Chemistry, University of Alaska Fairbanks, Fairbanks, AK, Department of Chemistry/Geophysical Institute, September 1987–September 1997.

Selected recent publications (total peer reviewed publications >200, h-index = 71)

1. Sedlacek A.J. Lewis E.R., Onasch T.B., Zuidema P., Redemann J., Jaffe D, and Kleinman L.I. Using the Black Carbon Particle Mixing State to Characterize the Lifecycle of Biomass Burning Aerosols. *Environmental Science & Technology*, 56 (20), 14315-14325 doi: 10.1021/acs.est.2c03851, 2022.
2. Bernays, N., Jaffe, D. A., Petropavlovskikh, I., and Effertz, P.: Comment on “Comparison of ozone measurement methods in biomass burning smoke: an evaluation under field and laboratory conditions” by Long et al. (2021), *Atmos. Meas. Tech.*, 15, 3189–3192, <https://doi.org/10.5194/amt-15-3189-2022>, 2022.
3. Jaffe, D. A., Ninneman, M., & Chan, H. C. NO_x and O₃ trends at U.S. non-attainment areas for 1995–2020: Influence of COVID-19 reductions and wildland fires on policy-relevant concentrations. *Journal of Geophysical Research: Atmospheres*, 127, e2021JD036385. <https://doi.org/10.1029/2021JD036385>, 2022.
4. Ninneman M and Jaffe D. The impact of wildfire smoke on ozone production in an urban area: Insights from field observations and photochemical box modeling. *Atmos. Environ.* 267 118764. <https://doi.org/10.1016/j.atmosenv.2021.118764>, 2021.
5. May, N.W., Dixon, C., Jaffe, D.A. Impact of Wildfire Smoke Events on Indoor Air Quality and Evaluation of a Low-cost Filtration Method. *Aerosol Air Qual. Res.* 21, 210046. <https://doi.org/10.4209/aaqr.210046>, 2021.
6. Hu C., Kang P., Jaffe D.A. Li C., Zhang X., Wu K., and Zhou M. Understanding the impact of meteorology on ozone in 334 cities of China. *Atmos. Environ.*, 248, 118221, <https://doi.org/10.1016/j.atmosenv.2021.118221>, 2021.
7. Jaffe D.A., O’Neill S.M., Larkin N.K., Holder A.L, Peterson D.L., Halofsky J.E. and Rappold A.G. (2020). Wildfire and prescribed burning impacts on air quality in the United States, *J. Air and Waste Mgt. Assn.*, DOI: [10.1080/10962247.2020.1749731](https://doi.org/10.1080/10962247.2020.1749731).

Synergistic Activities

Elected to the Washington State Academy of Sciences (July 2021). Selected for a National Academy of Sciences panel on "The Significance of International Transport of Air Pollutants" BASC-U-07-01-A, National Academy of Sciences/National Research Council. June 2008. Chapter lead for chapters on ozone and mercury for UNEP-HTAP 2007 report. Named the Fulbright Distinguished Chair in Environmental Sciences at Parthenope University of Naples for 2014. First UW-Bothell Distinguished Research, Scholarship, and Creative Activity Award (DRSCA) given in 2014. Selected as scientific expert/advisor for EPA Clean Air Science Advisory Committee (CASAC) in 2020. Member of a number of U.S. and international task forces and panels on global pollution, including task forces organized by the Hemispheric Transport of Air Pollutants (HTAP) program, NASA, NSF, NAS, AMAP, EPA and the Columbia River Gorge Commission.

Full CV available at: <https://blogs.uw.edu/djaffe/dan-jaffes-cv/>