**Vasu Kilaru, Research Physical Scientist, in EPA's National Exposure Research Laboratory**

Exposure Methods and Measurements Division
[Mailing Address](#)

[kilaru.vasu@epa.gov](mailto:kilaru.vasu@epa.gov)

**Area of Expertise:** Spatial analysis & geo-processing for atmospheric deposition, wildfires, and landscape analysis. Research into methods of aerosol remote sensing for tropospheric aerosols and human exposure. Currently work includes: platforms for data analytics and visualization for sensor data, sensor data & metadata standards, use of ontologies and semantic web technologies for exposure science.

**Select Publications:**

Melissa A Tinling; Jason J West; Wayne E Cascio; Vasu Kilaru; Ana G Rappold.  REPEATING CARDIOPULMONARY HEALTH EFFECTS IN RURAL NORTH CAROLINA POPULATION DURING A SECOND LARGE PEAT WILDFIRE.  Environmental Health 2016, 15:12

Kaufman, Amanda; Ron Williams; Sherri Hunt; Rebecca French; Holly Wilson; Gayle Hagler; Vasu Kilaru; Philip Fine; Stacey Katz; Gail Robarge; Dustin Renwick.  Highlights from the Air Sensors 2014 workshop.  EM special issue on Air Quality Sensors, Part 1, January, 2014

Kilaru, Vasu.  Air Sensors: Big Data, Big Dreams. EM January, 2014

Sickles, Joseph E.; Shadwick, Douglas S.; Kilaru, J. Vasu; Appel, K. Wyat.  "Transference ratios" to predict total oxidized sulfur and nitrogen deposition – Part II, modeling results. Atmospheric Environment vol. 77 October, 2013. p. 1070-1082

Emily G. Snyder *[†], Timothy H. Watkins [†], Paul A. Solomon [‡], Eben D. Thoma [†], Ronald W. Williams [†], Gayle S. W. Hagler [†], David Shelow [§], David A. Hindin, Vasu J. Kilaru [†], and Peter W. Preuss.  The Changing Paradigm of Air Pollution Monitoring. Environ. Sci. Technol., 2013, 47 (20), pp 11369–11377

Ana G Rappold, Wayne E Cascio, Vasu J Kilaru, Susan L Stone, Lucas M Neas, Robert B Devlin, David Diaz-Sanchez. Cardio-respiratory outcomes associated with exposure to wildfire smoke are modified by measures of community health.  Environmental Health 2012, 11:71

View more research publications by [Vasu Kilaru.](#)

**Education:**

- M.S. Resource Economics 1994, Duke University
- B.S. in Optics, 1987, University of Rochester

**Professional Experience:**

- Physical Scientist, U.S. EPA, NERL. July 1999 – present
- Environmental Engineer. U.S. EPA, OAR-OAQPS. February 1991 - July 1999