

CV:

Education

PhD in Chemistry, University of Crete, Greece

BS in Chemistry, University of Crete, Greece

Research Interests

Atmospheric aerosol and ozone

Pulmonary and cardiovascular health effects

Climate change and justice

Public health emergency preparedness

Selected Publications

Goldfarb D, Prezant D, Zeig-Owens R, Hall CB, Schwartz T, Liu Y, Kavouras IG. (2024) Association of firefighting exposures with lung function using a novel job exposure matrix. *Occupational and Environmental Medicine*, 81(2) 84-91.

Hardell J, Silver EJ, Kavouras I, Lee DD, Gross E. (2023) Childhood asthma in the Bronx, NY; the impact of pollutants on length of hospital stay. *Journal of Asthma*, 60(12) 2160-2169

Goldfarb D, Prezant D, Zeig-Owens R, Schwartz T, Kavouras IG. (2023) Development of a job-exposure matrix (JEM) for exposure to smoke particle mass among firefighters of the Fire Department of the City of New York (FDNY). *Occupational and Environmental Medicine*, 80(2), 104-110.

Dada O, Castillo K, Hogan M, Chalbot MCC, Kavouras IG. (2022) Evidence of the coupling of nicotine, solvents, flavorings, and new particle formation in electronic cigarette vapors. *Scientific Reports*, 12(1):18571.

Singh D, Tassew DD, Nelson J, Chalbot MG, Kavouras IG, Demokritou P, Tesfaigzi Y. (2022) Development of an Integrated Platform to Assess the Physicochemical and Toxicological Properties of Wood Combustion Particulate Matter. *Chemical Research in Toxicology*. 2022 Sep 19;35(9):1541-1557.

Singh S, Johnson G, DuBois, DW, Kavouras IG. (2022) Assessment of the contribution of local and regional biomass burning on PM_{2.5} in New York/New Jersey metropolitan area. *Aerosol and Air Quality Research*. 22(9), 220121.

Nored AW, Shedd JS, Chalbot MCG Kavouras IG (2022) On the role of atmospheric weathering on paint dust aerosol generated by mechanical abrasion of TiO₂ containing paints. *International Journal of Environmental Research and Public Health* 19 (3), 1265.

Singh S, Kavouras IG. (2022) Trends of ground-level ozone in New York City area during 2007-2017. *Atmosphere*, 13(1), 114.

Chalbot M-C, Siddiqui S, Kavouras IG. (2021) Molecular speciation of size fractionated particulate water-soluble organic carbon by two-dimensional nuclear magnetic resonance (NMR) spectroscopy. *International Journal of Environmental Research and Public Health* 18(3):1334.

<https://doi.org/10.3390/ijerph18031334>

Vora A, Chalbot MCC, Shin J, Kavouras IG (2021) Size distribution and lung deposition of particle mass generated by indoor activities. *Indoor and Built Environment* 30(9) 1344–1352
doi:10.1177/1420326X20939249

Nelson J, Chalbot MCC, Pavicevic Z, Kavouras I (2020) Characterization of exhaled breath condensate (EBC) non-exchangeable hydrogen functional types and lung function of wildland firefighters. *Journal of Breath Research* 14, 046010.

Nelson J, Chalbot MCC, Tsiodra I, Mihalopoulos N, Kavouras IG (2020) Physicochemical characterization of personal exposures to smoke aerosol and PAHs of wildland firefighters in prescribed fires. *Exposure and Health*. 13 (1) 105-118.