Journal Articles

Hopstock, K.S., Xie, Q., Alvarado, M.A., Moschos, V., Surratt, J.D., Bililign, S., Laskin, A., and Nizkorodov, S.A. (2024) Molecular Characterization and Photoreactivity of Organic Aerosols Formed from Pyrolysis of Urban Materials during Fires at the Wildland-Urban Interface. Environmental Science and Technology Air, doi: 10.1021/acsestair.4c00215. Available at https://doi.org/10.1021/acsestair.4c00215.

Hopstock, K.S., Perraud, V., Dalton, A.B., Barletta, B., Meinardi, S., Weltman, R.M., Mirkanian, M.A., Rakosi, K., Blake, D.R., Edwards, R.D., and Nizkorodov, S.A. (2024) Chemical Analysis of Exhaled Vape Emissions: Unraveling the Complexities of Humectant Fragmentation in Electronic Cigarette Vapor. ACS Chemical Research in Toxicology, doi: 10.1021/ace.chemrestox.4c00088. Available at https://doi.org/10.1021/acs.chemrestox.4c00088.

Kiland, K.J., Hopstock, K.S., Akande, A.A., Johnson, K.N., Li, X., Mahrt, F., Nikkho, S., Finlayson-Pitts, B.J., Borduas-Dedekind, N., Nizkorodov, S.A., and Bertram, A.K. (2024) Boiling of Catechol Secondary Organic Aerosol when Heated to Mild Temperatures (36-52 C) due to Acetone and Carbon Dioxide Formation and High Viscosity. ACS Environmental Science and Technology Air, doi: 10.1021/acsestair.4c00027. Available at https://doi.org/10.1021/acsestair.4c00027.

Hopstock, K.S., Klodt, A.K., Xie, Q., Alvarado, M.A., Laskin, A., and Nizkorodov, S.A. (2023) Photolytic Aging of Organic Aerosol from Pyrolyzed Urban Materials. Environmental Science Atmospheres, doi: 10.1039/d3ea00078h. Available at https://doi.org/10.1039/D3EA00078H.

Hopstock, K.S., Carpenter, B.P., Patterson, J., Al-Abadleh, H.A., and Nizkorodov, S.A. (2023) Formation of Insoluble Brown Carbon through Iron-Catalyzed Reaction of Biomass Burning Organics. Environmental Science Atmospheres, doi: 10.1039/d2ea00141a. Available at https://doi.org/10.1039/D2EA00141A.

Fang, T., Huang, B.C.H., Kapur, S., Hopstock, K.S., Wei, J., Nguyen, V., Nizkorodov, S.A., and Shiraiwa, M. (2023) Wildfire as a Source of Environmentally Persistent Free Radicals and Reactive Oxygen Species. Environmental Science Atmospheres, doi: 10.1039/d2ea00170e. Available at https://doi.org/10.1039/D2EA00170E.

Chin, H., Hopstock, K.S., Fleming, L.T., Nizkorodov, S.A., and Al-Abadleh, H.A. (2021) Effect of Aromatic Ring Substituents on the Ability of Catechol to Produce Brown Carbon in Iron (III)-Catalyzed Reactions. Environmental Science Atmospheres, doi: 10.1039/d0ea00007h. Available at https://doi.org/10.1039/D0EA00007H.

Meeting Presentations, Webinars, and Conference Proceedings

Hopstock, K.S., Nizkorodov, S.A. "Composition and Atmospheric Transformations of Organic Aerosol Emitted from Urban Material Burning." Informal Gathering on Atmospheric Science and Photochemistry Conference. University of California, Los Angeles. October 2023.

Hopstock, K.S., Nizkorodov, S.A. "Composition and Atmospheric Transformations of Organic Aerosol Emitted from Urban Material Burning." 41st Annual American Association for Aerosol Research Conference. Portland, Oregon. October 2023.

Hopstock, K.S., Nizkorodov, S.A. "Composition and Atmospheric Transformations of Organic Aerosol Emitted from Urban Material Burning." 264th American Chemical Society National Meeting and Exposition. Indianapolis, Indiana. March 2023.

Hopstock, K.S., Nizkorodov, S.A. "Characterization of VOC and Particle Emissions in Exhaled Air during Vaping." 40th Annual American Association for Aerosol Research Conference. Indianapolis, Indiana. October 2022.

Hopstock, K.S., Nizkorodov, S.A. "Characterization of VOC Emissions from Commercial E-Cigarette Usage." Informal Gathering on Atmospheric Science and Photochemistry Conference. University of California, Irvine. June 2022.

Hopstock, K.S., Nizkorodov, S.A. "Iron(III)-Catalyzed Chemistry in Biomass Burning Organic Aerosol." International Chemical Congress of Pacific Basin Societies. Virtual. December 2021.

Hopstock, K.S., Nizkorodov, S.A. "Iron(III)-Catalyzed Chemistry in Biomass Burning Organic Aerosol." 39th Annual American Association for Aerosol Research Conference. Virtual. October 2021.

Thesis

Hopstock, K.S. (2024) Molecular Composition and Chemical Aging of Organic Aerosol from Various Types of Smoke, Ph.D. Thesis, University of California, Irvine.