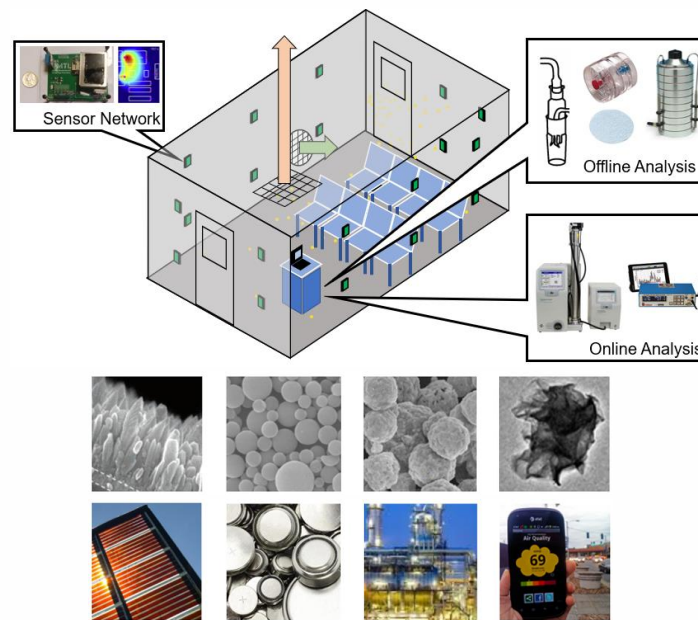


Aerosol and air quality research

Research Topics

- Combustion aerosols and their health impact
 - Fossil fuel combustion is a major source of inhalable aerosols
 - We characterize the physical, chemical, and toxicological properties of various types of combustion aerosols
- Bioaerosols in indoor environments
 - Airborne transmission of indoor pathogens is a critical public health concern
 - We deploy a series of online and offline bioaerosol measurement techniques to study indoor bioaerosol transport and evolution
- Large-scale transport of atmospheric aerosols
 - Atmospheric aerosols affect the global energy budget by scattering and absorbing sunlight
 - We analyze multi-year, multi-site record available from the U.S. Department of Energy to understand the transport of atmospheric aerosols



PoC

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Keywords

- Aerosol, Air quality, Bioaerosols, Combustion, Sensors, Health impact

Recognitions/Significant achievements

- European Aerosol Assembly Ph.D. Award (2019)
- Editor's selection of notable papers in Aerosol Sci. Technol.

Collaborative Interests

- Reactive oxidative species, nanotoxicity, combustion, Indoor air quality, drug delivery, functional nanoparticles