Aerosol & Particulate Research Laboratory

Prof. Chang-Yu Wu

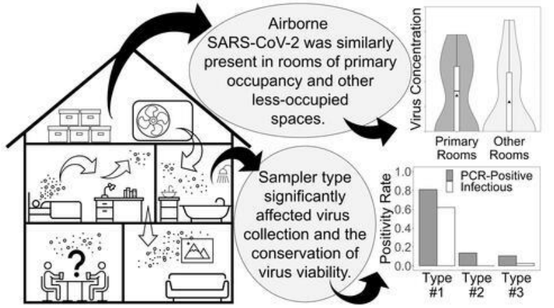
- Air Pollution Control
- Bioaerosol
- Health Engineering
- Air Quality
- Incineration
- Environmental Nanotechnology
- Environmental and Occupational Health
- Particle Toxicology
- Engineering Education

Dr. Chang-Yu Wu at the University of Miami researches aerosol science to address health and environmental challenges. His work includes COVID-19 aerosol transmission, bioaerosol control, mercury emission reduction, and lunar dust mitigation. His innovations improve air quality and worker safety, influencing global health guidelines and advancing environmental protection.

MIAMI COLLEGE OF ENGINEERING CHEMICAL, ENVIRONMENTAL & MATERIALS ENGINEERING

Transmission of Respiratory Pathogens

- Detect viable SARS-CoV-2 aerosols with Bio-Spot VIVAS
- Infectious Omicron detected in the air



AirDNA

- Environmental DNA degradation dynamics to estimate its airborne persistence and dispersion capabilities.

Aerosol Toxicity

- Toxicological interactions and health effects of bioaerosols and aerosols