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Research Interests

1) General:

- ✓ Air quality monitoring, primary and secondary aerosol sources, composition, and formation.
- ✓ Method development and instrumental analysis. Methods for sampling, extraction, and analysis of organic and inorganic species in the Earth's atmosphere. Solvent extraction, supercritical fluid extraction, thermal desorption, inductively coupled plasma, gas chromatography, liquid chromatography, multidimensional gas chromatography, multidimensional liquid chromatography, mass spectrometry.

2) Specific:

- ✓ Formation, evolution, composition, and emission sources of atmospheric organic aerosol (secondary organic aerosol, SOA).
- ✓ Elemental composition (metals) of atmospheric primary particulate matter, emission sources, mass apportionment, and transport.
- ✓ Composition of natural and anthropogenic gaseous species (i.e. SO₂, NO_x, semi-volatile organic compounds such as monoterpenes, sesquiterpenes, and PAH).