

Special Issue

Agriculture and Air Quality

Message from the Guest Editor

Agricultural activities from animal production and crop production are becoming increasingly scrutinized due to their impacts on the atmosphere. Agricultural contributions to air quality issues include greenhouse gases (methane and nitrous oxide), odor compounds (several classes of volatile organic compounds), the primary production of particulate matter from tillage and harvesting, dust and bioaerosols from animal housing, combustion aerosols from controlled burns, and precursor emissions, which can lead to secondary atmospheric chemistry and regional deposition effects (i.e., ammonia, amines, sulfur compounds, and nitric oxide). Emission inventories and models are in many ways incomplete at local, national, and international levels, making it difficult to test mitigation strategies in a comprehensive way. Measurement- and modeling-oriented papers that examine emissions from agricultural sources, the factors governing the emission process, mitigation methods, and economic feasibility, are encouraged.

Guest Editor

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