



Cooking Organic Aerosol (COA): Characterization, Variability, and Simulation

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Deadline for manuscript
submissions:

closed (1 August 2022)

Message from the Guest Editors

Dear Colleagues,

Cooking is an important source of organic aerosols (OA). In recent decades, many studies have reported that cooking OA (COA) is an important component of OA worldwide, and the contribution of COA to OA ranged from 10% to 30%. Cooking emits primary OA and volatile organic compounds (VOCs), and they can be oxidized in the atmosphere to form secondary OA. The COA characteristics, emission rates, and the ability for forming SOA show large variability for different cooking oils or different cooking processes.

This Special Issue aims to present the most recent and outstanding results on COA. Topics of interest for this Special Issue cover different aspects of COA, including, but are not limited to:

- characterization and variability of COA by ambient measurement worldwide;
- chamber studies for COA properties;
- emission rates of COA for different cooking processes;
- model simulations of COA.





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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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