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Flame Synthesis and Characterization of Oxide Nanoparticles

Guest Editor:

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Deadline for manuscript submissions:
closed (20 May 2022)

Message from the Guest Editor

Dear Colleagues,

Although flame synthesis is the commercially used method for nanoparticle production, a lot of work is still needed to understand the chemical and physical processes of nanoparticle synthesis in relation to the properties required in a specific application. In this context, it is of particular interest to develop and apply diagnostic techniques for the investigation and monitoring of the synthesis process. Characterization of the oxide nanoparticles during and after the synthesis is important for the specific application considered. Moreover, the development of modeling and simulation tools will help to gain a whole comprehension of the processes involved.

This Special Issue on "Flame Synthesis and Characterization of Oxide Nanoparticles" will publish high-quality research articles on the broad area of synthesis, modeling, and characterization of oxide nanoparticles produced in flames.

The topics of interest include but are not limited to the following:

- Oxide nanoparticles formation and grow in flames
- Diagnostics
- Modeling
- Applications

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