

Special Issue

Flame Synthesis and Characterization of Oxide Nanoparticles

Message from the Guest Editor

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

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2022)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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