



Advances in Ceramics

Guest Editor:

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Message from the Guest Editor

Dear Colleague,

Ceramic materials are largely used in industry or key technologies of the 21st century. Important developments have been made during the last few decades concerning the fabrication of new functional or structural ceramics. Advanced ceramics can fulfill many functions that can be briefly recalled: electrical, optical, magnetic, chemical, thermal, thermomechanical, nuclear, military, biomedical functions. These functions determine their applications and, therefore, their development.

The aim of this Special Issue on “advances in ceramics” is to present the latest developments concerning advanced ceramics from fabrication to properties and applications. The following topics can be addressed:

- Powder synthesis, ceramic processing and shaping;
- Sintering: conventional, cold sintering, flash sintering, field-assisted sintering, pressure-assisted sintering;
- Additive fabrication;
- Advanced structural ceramics and composites;
- Refractories and UHT ceramics;
- Functional ceramics;
- Ceramic coatings and thin films;
- Ceramics and energy;
- Ceramics and environment;

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Editor-in-Chief

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Message from the Editor-in-Chief

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