

Special Issue

Advances in Ceramics

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;

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2022)



Ceramics

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Impact Factor 2.0
CiteScore 3.7



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About the Journal

Message from the Editor-in-Chief

Ceramics (ISSN 2571-6131), an international, open access journal, provides an advanced forum for ceramics science and engineering. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We are committed to drive *Ceramics* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts. Your contribution should lead to the development of technical ceramics with better performances and to improve our quality of life.

Editor-in-Chief

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Author Benefits

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).