Special Issue

Beyond Conventional Sintering

Message from the Guest Editors

Sintering, as one of the established processing routes for the fabrication of ceramic parts, directly defines their structure, microstructure, and functional properties. Recent advances in sintering have enabled researchers to address many of the longstanding challenges in ceramic processing. As a result, ceramics with enhanced and/or unexplored properties can be attained, and *beyond conventional sintering* techniques are establishing a paradigm shift in tailoring processing–microstructure–property correlations. We invite you to contribute to this Special Issue, which will cover the rich diversity of sintering science and technology topics. We encourage scientists to contribute to this Special Issue by submitting short communications, full papers, or review papers focusing on the fundamental understanding of applied sintering science. The key topics include, but are not limited to, the following:

- Low-temperature consolidation of ceramics;
- Rapid and ultra-rapid sintering;
- Out-of-equilibrium processing;
- Athermal effects in sintering;
- Intrinsic effects of thermal cycles in sintering.

Guest Editors

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Deadline for manuscript submissions

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.3 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2026).