# Special Issue

# Mechanical Behavior and Reliability of Engineering Ceramics

## Message from the Guest Editor

Important developments have been made in recent decades concerning engineering ceramics, including the emergence of new materials and the use of innovative processing methods, such as additive manufacturing or spark plasma sintering. Due to the brittleness of these materials, their mechanical properties and reliability are highly dependent on the nature of the pre-existing flaws and their stability. Their optimization relies on a complete understanding of the influence of the microstructure and the processing routes on their failure behavior. This Special Issue aims to bring together papers that advance understanding in this field. We invite you to propose short communications, full papers, or reviews corresponding to this Special Issue, for which the following topics can be addressed: Mechanical strength;
Fracture toughness;
Static and cyclic fatigue;
Mechanisms of failure;
Statistical analysis;
Advanced mechanical characterization methods;
Relationship between microstructure and mechanical properties;
Influence of processing routes.

## Guest Editor

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## Deadline for manuscript submissions

closed (30 June 2025)

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Impact Factor 2.0
CiteScore 3.7

mdpi.com/si/186805

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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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