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# **Mechanical Behavior and Reliability of Engineering Ceramics**

Guest Editor:

## Message from the Guest Editor

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Dear Colleagues,

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.

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#### Message from the Editor-in-Chief

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