



Advances in Structural Ceramic Materials

Guest Editor:

Prof. Dr. Frank Kern

Institute for Manufacturing
Technologies of Ceramic
Components and Composites
(IFKB), University of Stuttgart,
70569 Stuttgart, Germany

Deadline for manuscript
submissions:

closed (31 July 2020)

Message from the Guest Editor

This Special Issue aims at advances in structural ceramic materials from two perspectives. The first point of view is material science representing the development and characterization of new structural ceramic materials. The second one—which is equally important—is the engineering point of view, representing ceramics processing from powder technology to compounding, forming and shaping, and sintering and machining.

I would like to encourage scientists from both fields to contribute short communications, full articles, and reviews to this Special Issue. The topics to be addressed are, e.g.:

- Oxide ceramics (alumina, zirconia, composites);
- Non-oxide ceramics (silicon carbide, silicon nitride, composites);
- Characterization (microstructure, mechanical properties at ambient and high temperature, fracture mechanics);
- Processing of ceramics;
 - Powder technology;
 - Compounding of feedstocks;
 - Shaping of components (conventional and additive);
 - Sintering (conventional, pressure assisted, SPS);
 - Machining (green machining, final machining, non-conventional machining).





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Gilbert Fantozzi

INSA-Lyon, MATEIS Laboratory
UMR CNRS 5510, 69621
Villeurbanne, France

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.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**, **ESCI (Web of Science)**, and **other databases**.

Journal Rank: JCR - Q1 (Materials Science, Ceramics) / CiteScore - Q2 (*Materials Science (miscellaneous)*)

Contact Us

Ceramics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ceramics
ceramics@mdpi.com