



an Open Access Journal by MDPI

# **Recent Studies in Advanced Structural Ceramics**

Guest Editor:

### Prof. Dr. Songlin Ran

School of Materials Science and Engineering, Anhui University of Technology, Maanshan, China

Deadline for manuscript submissions: closed (10 April 2023)

## Message from the Guest Editor

Dear Colleagues,

Advanced structural ceramics have gained great importance due to their suitable mechanical properties, such as high hardness, intensive strength, good wear resistance, and outstanding thermal shock resistance under demanding conditions. The research scope in advanced structural ceramics includes powder synthesis, shaping, the sintering method, microstructure control, machining processing, and performance characterization. Recently, theoretical simulation and machine learning have facilitated the development of new advanced structural ceramics. It should also be noted that structuralfunctional integrated ceramics is an attractive developing direction of advanced ceramics, which may break the boundary between structural ceramics and functional ceramics. In this Special Issue, we aim to gather recent studies in advanced structural ceramics, and all of the above topics are covered.

**Special**sue

Prof. Dr. Songlin Ran *Guest Editor* 



mdpi.com/si/130962





an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

### Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials. materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

### **Author Benefits**

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

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

### **Contact Us**

*Materials* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials\_Mdpi