

## Special Issue

# Advanced Computational Technologies for Simulation of the Structure of Solids Ceramics

### Message from the Guest Editor

Solid ceramics denotes a large class of ceramic materials widely used in an extensive range of applications. Structural ceramics mainly consist of oxides, nitrides, borides, and carbides. A remarkable feature is their great maintenance in terms of mechanical strength and dimensional tolerances at high-temperature conditions, making them very attractive for high-temperature applications. They find applications in many industrial components, more specifically, in different wear applications, bearings, sealing devices and inserts for cutting of metals, and orthopedic as well as dental implants. This family includes both monolithic ceramics and ceramic-ceramic composites. The microstructure of ceramics plays a crucial role on their properties.

In this Special Issue, we aim at highlighting and discussing on modern trends of computational technologies applicable to simulation of the structure of solids ceramics.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 May 2022)



## Materials

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### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, 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.

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