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Advanced Computational Technologies for Simulation of the Structure of Solids Ceramics

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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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Special Issue



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Message from the Editor-in-Chief

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