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Recent Studies in Advanced Structural Ceramics

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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 structural–functional 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.

Prof. Dr. Songlin Ran

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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