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## High Temperature Ceramic Materials

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Deadline for manuscript  
submissions:  
**closed (30 April 2020)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue is aimed to cover the recent research work on high temperature ceramic materials. Topics can include, but are not limited to, the following:

- Novel synthesis of high melting ceramic particles/nanofibres
- New binders/bonding systems
- Novel shape forming techniques (e.g., Casting, additive manufacturing, directional solidification, coating preparation techniques, composite preparation techniques)
- Sintering/densification techniques and mechanisms (e.g., hot-pressing, laser processing, SPS sintering, cold sintering and flash sintering)
- Properties: mechanical, thermal and chemical properties
- Physical/chemical/microstructural characterizations
- Simulations: thermodynamic simulations, molecular dynamic simulation, Monte Carlo simulation and first-principles density functional calculation
- Applications of high temperature ceramics
- Preparation and characterization of new system high temperature ceramics

It is my great pleasure to invite colleagues to submit a manuscript for this Special Issue. Full papers, communications, and reviews on any aspect of high temperature ceramics are all welcome.

Prof. Dr. Shaowei Zhang

*Guest Editor*



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# Special Issue



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