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High Temperature Ceramic Materials

Guest Editor:

Prof. Dr. Shaowei Zhang

College of Engineering, Mathematics and Physical Sciences, University of Exeter, Exeter, UK

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., hotpressing, 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.

Specialsue

Prof. Dr. Shaowei Zhang

Guest Editor







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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

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Materials Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi