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High Pressure Synthesis in Materials Science

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Message from the Guest Editor

High pressure (HP) is an integral part of various domains of science. The combination of temperature with pressure results in applications in several already existing fields, to sinter/consolidate/densify for obtaining solid material. Innovative HP processes were designed for the high pressure syntheses.

Recently, innovative high pressure processes have emerged by the combination of different technologies opening new possibility for obtaining these advanced functional inorganic materials such as: high pressure & spark plasma sintering, cold isostatic pressure & minus temperature, hydrothermal synthesis & sintering.

The upcoming Special Issue, entitled “High Pressure Synthesis in Materials Science” aims to cover an overview of the innovation in high pressure processes/technologies for the synthesis of advanced functional inorganic materials. To this end, it is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are welcome.

Keywords

- sintering
- densification
- consolidation
- crystallization
- polymorphism
- innovative high pressure processes



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Special Issue



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Message from the Editor-in-Chief

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