

Special Issue

High Pressure Synthesis in Materials Science

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

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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