Special Issue

Advanced Multifunctional Materials under High Temperature and High Pressure

Message from the Guest Editor

Under extreme conditions, such as those of high temperature and high pressure, engineering materials are frequently required to perform multiple functions. Consequently, it is necessary to evaluate the performance of these materials in serving the multi-ended needs and provide mechanistic-level understandings to progressively address the increasingly harsh requirements. The aim of this Special Issue is to provide a platform for researchers to share their original research outcomes and to contribute to the outstanding collection of reviews and experimental, numerical and technical studies on the performance of multi-functional materials under high temperatures and high pressures. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Nuclear fuels and structural materials under high temperatures and high pressures;
- Performance of containment structural materials under high temperatures and high pressures;
- Conductive materials under extreme engineering conditions;
- Performance of catalytic materials under high temperatures and high pressures.

Guest Editor

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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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