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Novel High-Temperature Materials: Preparation, Characterization, and Applications

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Message from the Guest Editor

Dear Colleagues,

The Special Issue on “**Novel High-Temperature Materials: Preparation, Characterization, and Applications**” brings together scientists to discuss advanced research on these group of materials. High-temperature materials are ceramics, metals, their alloys, and composites which offer excellent chemical, phase, and property stability, at temperatures exceeding 900 °C. More specifically, these are the materials which could be used at such high temperatures and consist principally of some stainless steels, Ni-base alloys, single-crystal super alloys, refractory metals (tungsten, rhenium, osmium, tantalum, molybdenum, niobium, zirconium, iridium), their alloys, and a wide group of ceramic materials. These materials are used as materials of thermal protection systems (TPS), coatings for materials exposed to high temperatures, and bulk materials for heating elements or isolators.

Therefore, this Special Issue welcomes contributions from all researchers working on high-temperature materials obtaining, as well as on their modeling, synthesis, characterization, properties, and applications.



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Special Issue



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Message from the Editor-in-Chief

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