



High Temperature Coatings

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Deadline for manuscript submissions: **31 August 2014**



Special Issue website: mdpi.com/si/coatings/high-temperature-coatings

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Dear Colleagues,

High Temperature Coatings assolve the vital function of protecting the underlying materials from thermal stresses. Their impact in our society is important as these coatings find applications in many crucial sectors as energy production and the aerospace industry. One of the most important contributions of the field of material science research during the last century was the development of the Thermal Barrier Coating (TBC) architecture, now a mature commercial technology and still a very active research field. Researchers from any field are now called from the institutions and the public to contribute to sustainable development. This is a very important opportunity for the High Temperature Coatings community which also can provide several applications in which TBCs and other high temperature coatings increase the efficiency of thermal engines and provide improved performance in other energy applications, such as in Solide Oxide Fuel Cells and in the protection from hot corrosion phenomena occurring in burning biomass. It is a pleasure for us editing this special issue in such an exceptionally active research field. We invite experts to contribute with their original research articles and with manuscripts regarding research ideas envisioning future opportunity for the High Temperature Coatings community also.

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Special Issue Topics:

- hot corrosion protection
- high temperature oxidation
- thermal barrier coatings
- plasma spraying
- failure mechanism
- coatings architecture
- intelligent coatings