



## Ceramic Coatings for High-Temperature Applications

Guest Editors:

**Dr. Amirhossein Pakseresht**

Coating Department, FunGlass -  
Centre for Functional and  
Surface Functionalised Glass,  
Alexander Dubcek University of  
Trencin, 91150 Trencin, Slovakia

**Dr. Kamalan Kirubakaran  
Amirtharaj Mosas**

Department of Coating  
Processes, Centre for Functional  
and Surface Functionalized  
Glass, Alexander Dubček  
University of Trenčín, Študentská  
2, 911 50 Trenčín, Slovakia

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### Message from the Guest Editors

Dear Colleagues,

Ceramic coatings are frequently used on metallic components to offer thermal shock protection, surface seals, erosion protection, diffusion barriers, sealants, and thermal insulation. Understanding the microstructure and behavior of ceramic coatings is critical for optimizing their functioning. Durability, ease of application, repairability, reliability, and long-term performance are all critical characteristics of such coatings. As such, this Special Issue will feature research and review articles on ceramic (for example,  $ZrO_2$ ,  $Al_2O_3$ , SiC,  $SiO_2$ , HfC, TaC, and ZrC) and composite coatings used in high-temperature environments, as well as the factors influencing their selection and processing. Along with ceramic coatings, cermet-based coatings for use in high-temperature situations are also welcome.

This is a great opportunity for the high-temperature-coatings research community since it could lead to several applications in which ceramic coatings can improve the efficiency and longevity of coated metallic components.





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**Prof. Dr. Gilbert Fantozzi**

INSA-Lyon, MATEIS Laboratory  
UMR CNRS 5510, 69621  
Villeurbanne, France

## Message from the Editor-in-Chief

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*Ceramics* Editorial Office  
MDPI, St. Alban-Anlage 66  
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