

Special Issue

Ceramic Coatings for High-Temperature Applications

Message from the Guest Editors

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, reparability, 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, ZrO₂, Al₂O₃, SiC, SiO₂, 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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Message from the Editor-in-Chief

Ceramics (ISSN 2571-6131), an international, open access journal, provides an advanced forum for ceramics science and engineering. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We are committed to drive *Ceramics* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts. Your contribution should lead to the development of technical ceramics with better performances and to improve our quality of life.

Editor-in-Chief

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