Special Issue

Thermal Sprayed Coatings

Message from the Guest Editors

Thermal spraying has become one of the well-known processing technologies, now used in a wide range of industries, from automotive to medical, chemical and even aerospace, to provide wear and corrosion resistance, biocompatibility, and thermal insulation (TBC). The way coatings are formed is unique and is based on the superposition of individual particles that impact and adhere to the substrate, representing the 'bricks' that form the layers. The unique properties of these coatings thus depend on a multitude of working parameters that influence both how the coating adheres to the substrate and how the splats interact with each other. It becomes very clear that the study of splat morphology and particles phase transformations that occur during deposition and rapid solidification is crucial for the understanding of the coating's formation and behaviour in operation.

For these reasons, I invite you all to contribute with your valuable studies on obtaining, properties and applications, to complete such a complex picture, which will help other researchers and industrial engineers who want to use thermal spray deposited coatings in various applications.

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Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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