

Advanced Thermal Spraying Technology

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Message from the Guest Editors

Thermal spray is a versatile family of deposition processes, useful to obtain coatings for several industrial applications – from naval to aeronautics and energy, and for protection from thermally harsh environments, as well as from wear and corrosion mechanisms, et.al. Through the years, the research around process parameters, materials to be deposited and coatings characterization never ceased attracting the interest of the scientific community. In fact, although thermal spray is a rather mainstream processing route, widely employed wherever either thermal or mechanical protection is needed, it still is a research hot topic due to its versatility and reliability.

This Special Issue aims to collect recent developments around thermal spray techniques. The topics of interest for this Special Issue, in particular, include (but are not restricted to):

- Novelties in the utilization of existing deposition processes;
- Modifications of the process parameters and configurations;
- New coatings formulations and compositions;
- Environmentally friendly processes and coatings;
- Novel applications of thermal spray coatings;
- Advancements in coatings characterization.



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Special Issue

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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