Special Issue

Thermal Spraying of Metallic Coatings

Message from the Guest Editor

Thermal spray is a large family of surface deposition techniques that are experiencing constant progress and evolution. The subject proposed for the Special Issue covers fundamental and technological topics concerning consolidated and advanced spraying techniques for the deposition of metals and metal matrix; the optimization of conventional compositions and systems; and the design of innovative, metal-based coatings and architectures for newly conceived applications. Topics of interest will include (but will not be limited to) the following:

- Recent developments in thermal spraying technologies for metal-based coatings
- The metallurgy of coatings and coating–substrate combinations
- Wear, corrosion, and oxidation-resistant coatings
- Innovative bond coats for thermal barrier coatings
- Coatings for electronics
- Coatings for biomedical applications
- Post-treatments and joining
- Standardization of testing procedures
- Modelling and simulation of deposition processes and of coating performance in operation

I look forward to receiving your contribution to this common project.

Guest Editor

Prof. Dr. Cecilia Bartuli

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Deadline for manuscript submissions

closed (30 September 2019)

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About the Journal

Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

Prof. Dr. Yong Zhang
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).

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