

## Special Issue

# Advances in Laser Cladding and Laser-Aided Additive Manufacturing Technology

### Message from the Guest Editor

Lasers are used in many industries, and their application in various fields is only growing with time. Laser-assisted machinery highlights how lasers have helped us reach the forefront of technology making rapid changes possible, including the improvement of metallurgical, mechanical and tribological properties, a battle many scientists throughout the world battle with to limit energy and material losses. Lasers have become a significant and impressive tool for additive manufacturing and various surface modification methods, such as hardening, melting, alloying, cladding, texturing, etc. Laser cladding and laser-aided additive manufacturing techniques offer extensive promises to accomplish preferred mechanical and tribological properties.

Challenges in laser cladding, laser-aided additive manufacturing and mechanical and tribological issues are difficult and interesting. In this new age of global interconnectivity and interdependence, it is necessary to provide the latest research outcomes, with state-of-the-art knowledge on the frontiers in laser cladding and laser-aided additive manufacturing techniques. This Special Issue is a good step in that direction.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 October 2024)



## Metals

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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.

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