

## Special Issue

# Laser Cladding Technology: Process and Application

### Message from the Guest Editors

Laser cladding technology is a new in situ manufacturing/repairing technology with high economic benefits, in that it can prepare high-performance alloy surfaces on cheap metal substrates without affecting the properties of the substrate, reducing costs and saving precious and rare metal materials. Compared with built-up welding, spraying, electroplating and vapor deposition, laser cladding has the characteristics of small dilution, dense structure, good combination between coating and substrate (which are more suitable for cladding materials), and can change particle size and content to a great extent. Therefore, the world's advanced industrial countries attach great importance to the research and application of laser cladding technology.

In this Special Issue, we welcome articles that focus on laser cladding technology, including but not limited to: microstructure evolution, products' mechanical performance, fatigue life, numerical modelling methods, optimization processing design, novel materials design methods and new application fields, etc.

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### Guest Editors

Prof. Dr. Yongkang Zhang

School of Mechanical and Electrical Engineering, Guangdong University of Technology, Guangzhou, China

Dr. Shupeng Cai

School of Mechanical and Electrical Engineering, Guangdong University of Technology, Guangzhou, China

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### Deadline for manuscript submissions

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## Metals

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metals@mdpi.com](mailto:metals@mdpi.com)

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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.

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### Editor-in-Chief

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering,  
State Key Laboratory for Advanced Metals and Materials, University of  
Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083,  
China

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