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Microstructure and Mechanical Properties of Laser Additive Manufactured Metals II

Guest Editor:

Prof. Dr. Mariangela Lombardi
1. Integrated Additive Manufacturing Center (IAM)—Politecnico di Torino, Corso Castelfidardo, 51, 10129 Torino, Italy
2. Department of Applied Science and Technology (DISAT), Politecnico di Torino, Corso Duca Degli Abruzzi, 24, 10129 Torino, Italy

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Message from the Guest Editor

Dear Colleagues,

Laser additive manufacturing technologies such as laser powder bed fusion and directed energy deposition are new disruptive technologies for the production of complex-shaped and lightweight metallic components. This is due to the revolution in design approach that additive manufacturing technologies allows. Notwithstanding this, there are still several limitations in suitable metallic alloys. The actual challenges are focused on the development of new compositions and the study of alloys or metal matrix composites for additive manufacturing technologies. Defining innovative compositions, the right window for the main process parameters of additive manufacturing technologies, and the thermal treatment conditions can contribute to the obtainment of additively manufactured metals with interesting mechanical performance.

This Special Issue aims to present the latest research works related to the study of metal matrix composites processed through laser additive manufacturing technologies, focusing the attention on microstructural and mechanical characteristics of the materials.

Prof. Dr. Mariangela Lombardi
Guest Editor

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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𝕏@Materials_Mdpi