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Advances in Physical Metallurgy of Additively Manufactured Alloys

Guest Editors:

Dr. Andrew Breen

School of Aerospace, Mechanical
and Mechatronic Engineering,
The University of Sydney, Sydney,
NSW 2006, Australia

Dr. Vitor Rielli

School of Materials Science and
Engineering, UNSW Sydney, NSW,
Australia

Deadline for manuscript
submissions:

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Message from the Guest Editors

Dear Colleagues,

We seek submissions that delve into the microstructure–property–processing relationship in metals and alloys manufactured through various AM technologies, encompassing various materials from nickel and titanium alloys to steel and high-entropy alloys. Powder bed fusion, direct metal deposition, and cold spray additive manufacturing are among the targeted technologies. Contributions examining microstructural characterisation after various post-treatments are encouraged. This interdisciplinary endeavour aims to bridge the gap between traditional physical metallurgy and the unique challenges posed by AM by addressing barriers like material selection, consistency, repeatability, accuracy, and post-processing requirements in AM.

This Special Issue aims to accelerate the development of AM-manufactured alloys for various industries, including aerospace, automotive, maritime, and biomedical. Full papers, short communications, case studies, and reviews advancing our understanding and application of physical metallurgy in additive manufacturing are welcomed.

I look forward to receiving your contributions.

Dr. Andrew Breen

Dr. Vitor Rielli

Guest Editors



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Special Issue



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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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