

## Special Issue

# Additive Manufacturing of Alloys via Laser-Based Techniques

### Message from the Guest Editors

To date, significant advances in materials for AM have been reported, and research is mostly directed toward processing and applying established alloys (i.e., optimized for cast and wrought processes). However, more research efforts are needed to further develop new materials, particularly alloys specifically designed for AM processes and for more advanced and extreme applications. In this multidisciplinary Special Issue entitled “Additive Manufacturing of Alloys via Laser-Based Techniques”, we welcome you to submit papers in the following research areas of additive manufacturing, including but not limited to materials design and development for AM; process optimization; novel methods for materials characterization; simulation and modeling of AM; process–structure–property (PSP) relationships; manufacturing technologies in AM, machine learning in AM; innovative applications; any other interesting research topics regarding AM. In addition, perspectives and critical reviews on the current challenges/limitations as well as future directions in the field are also welcomed.

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### Guest Editors

Dr. Joon Phil Choi

Dr. Swee Leong Sing

Dr. Haining Zhang

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### Deadline for manuscript submissions

closed (15 March 2024)



## Crystals

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## About the Journal

### Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli  
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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