

Special Issue

Advanced Additive Manufacturing for Metal Materials and Components

Message from the Guest Editor

Additive manufacturing (AM), particularly in metals, revolutionizes how components and materials are designed, fabricated, and utilized across various industries. We aim to explore innovative approaches that enhance the properties, performance, and scalability of metal components produced through AM. This Special Issue focuses on the latest advancements in additive manufacturing techniques, processes, and materials specifically tailored for metal applications. Key topics include, but are not limited to, the development of process optimization, post-processing, and applications for advanced AM of metal alloy materials, including their quality control, standardization, and sustainability for sectors, especially aerospace, automotive, and biomedical engineering. We welcome the articles related to, but not limited to, the following topics for submission in this Special Issue:

- Additive manufacturing
- Automotive, Aerospace, and Biomedical applications
- Characteristic and performance
- Novel metal and alloy materials
- Post-processing of metal and alloy materials
- Process optimization and Quality control

Guest Editor

Dr. Sipokazi Mabuwa

Mechanical Engineering Department, Durban University of Technology,
Durban 4001, South Africa

Deadline for manuscript submissions

30 September 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/215442

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)