



New Innovations in AM - Laser and Electron Beam PBF

Guest Editors:

Prof. Dr. Adin Stern

Dr. Ohad Dolev

Dr. Tiferet Eitan

Deadline for manuscript
submissions:

closed (15 August 2022)

Message from the Guest Editors

AM laser and EB powder bed fusion are well-known research, development and production technologies for generating complex, high-quality components and structures. The macrostructures of LPBF or EBPBF-prepared components appear as collages of solidified track segments, which have been re-melted several times by the adjacent beam traces during AM process. The high cooling rate of a small weld pool leads to the formation of very fine microstructures and improved mechanical properties. The parts can be found in products from the automotive, aerospace, and optical industries, as well as in the medical and telecommunications industries.

In this Special Issue of JMMP, submissions should be related to materials processing and/or manufacturing. It is worth noting that numerical simulation should be validated by experimental results and include the pertinent data. We are looking for recent innovations that focus on:

- improved and/or new feedstock powder
- multi-material manufacturing
- process monitoring for sound/robust manufacturing
- process stability improvement
- enhancing product quality and dimensional accuracy
- decreasing manufacturing lead time
- increasing production rate





Journal of
***Manufacturing and
Materials Processing***



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Steven Y. Liang

George W. Woodruff School of
Mechanical Engineering, Georgia
Institute of Technology, Atlanta,
GA 30332-0405, USA

Message from the Editor-in-Chief

Journal of Manufacturing and Materials Processing (JMMP) (ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP*.

Author Benefits

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

High Visibility: indexed within **Scopus**, **ESCI (Web of Science)**, **Inspec**, **CAPlus / SciFinder**, **Ei Compendex** and **other databases**.

Journal Rank: JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Mechanical Engineering)

Contact Us

*Journal of Manufacturing and
Materials Processing* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jmmp
jmmp@mdpi.com
[X@JMMP_MDPI](https://twitter.com/JMMP_MDPI)