Special Issue

New Innovations in AM - Laser and Electron Beam PBF

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

Guest Editors

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Deadline for manuscript submissions

closed (15 August 2022)

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About the Journal

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.*

Editor-in-Chief

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