# Special Issue

# Powder injection Moulding (PIM) & Material Extrusion Additive Manufacturing with Highly-Filled Polymer (MEAM-HP)

## Message from the Guest Editor

Development of a powder injection moulding and 3D printing processes, including mixing, injection, 3D printing extrusion, debinding, and sintering, has been a very active research field in the last few decades. This Special Issue on “Powder Injection Moulding & Material Extrusion Additive Manufacturing with Highly-Filled Polymer” intends to collect the last developments in mixing, moulding, 3D printing extrusion, debinding, sintering, and post-processing stages of the PIM & MEAM-HP processes. Topics addressed in this Special Issue may include but are not limited to: - Developments in feedstock formulations and characterization of feedstocks properties;
- Numerical simulation of mould filling;
- Feedstocks mouldability, tooling, and evaluation of moulding defects;
- Development of 3D printing using material extrusion additive manufacturing with highly-filled polymer
- Debinding;
- Sintering (including modeling, charaterisation, and process optimisation);
- Secondary processing;
- Industrial applications.

## Guest Editor

Prof. Vincent Demers
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## Deadline for manuscript submissions

closed (31 January 2021)

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# About the Journal

## Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

## Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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