

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, characterisation, and process optimisation);
- Secondary processing;
- Industrial applications.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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