Special Issue

Metal Injection Molding of Functional Alloys

Message from the Guest Editor

MIM has proven to be a cost-effective solution to produce parts of complex geometry from both structural and functional alloys. For structural alloy parts, good mechanical properties are the main requirement. For functional alloy parts, the other properties are the most relevant for the target applications. This Special Issue focuses on recent advances in MIM of magnetic materials, porous parts, gradient materials, catalytic materials, shape memory and superelastic alloys, low expansion alloys, lightweight or heavy alloys, corrosion resistant materials, biocompatible materials, temperature resistant materials, materials for actuators, and any application in which the functional character is the priority over high strength or stiffness. Powder and feedstock production, mould design, part processing and finishing, materials characterization and modelling are covered. The applications fields include automotive, aerospace, dental and medical, electronics, and energy sectors among others."

- Metal injection moulding
- Powder Metallurgy
- Powder and Feedstock Processing
- Functional Materials
- Part and Mould Design
- Modelling

Guest Editor

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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.

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