

Special Issue

Powders Materials for Additive Manufacturing (AM)

Message from the Guest Editor

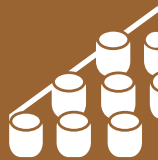
Powder materials are used in many industrial applications and processes, such as hot isostatic pressing (HIP), metal injection moulding (MIM), thermal spraying technologies, catalysis, welding, brazing, and so on. The design and manufacturing of metal powders have gained significant importance with the emergence of additive manufacturing technologies. The development and utilisation of metal powder for additive manufacturing encompass many facets including composition, thermodynamic properties and microstructure, the impact of the manufacturing technologies, and dedicated characterisation methods for suitable powder for AM processes. In addition, the evaluation of the properties of such materials, in relation to their application conditions, includes their processing during the printing steps and including its recycling, with adequate strategies depending on the AM process. In this Special Issue, the latest progresses in designing powders materials for additive manufacturing (AM) are thoroughly highlighted and discussed. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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