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.

Guest Editor

Prof. Dr. Patrick Masset
Faculty of Mechanical Engineering, Koszalin University of Technology, 75-453 Koszalin, Poland

Deadline for manuscript submissions

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

Editors-in-Chief

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1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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