Special Issue

Effect of Hot Manufacturing Methods on Material Processing by Finite Element Modelling

Message from the Guest Editors

Despite scientific and practical advances in the science of manufacturing processes, many issues in this field are still not well understood. One of the industrial and research branches in this field is thermomechanical (TM) processes. With the TM method, final materials or products can be produced with targeted mechanical, chemical, thermal, electrical or metallurgical properties. With the TM process, the properties of the raw material can be greatly improved. Accordingly, the development of TM production processes or the use of new materials and products with this method are still developing and will have a bright future. Various types of production methods are performed with the TM process, including forming, welding, microstructural changes to produce nanostructures in bulk materials, as well as additive manufacturing.

Guest Editors

Dr. Eduardo Garcia
Dr. Alberto Murillo Marrodán
Dr. Hamed Aghajani Derazkola

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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.

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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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