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.

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Message from the Editor-in-Chief

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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