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Metal Forming and Forging

Guest Editors:

Dr. Lander Galdós
Department of Mechanical and Industrial Production, Mondragon Unibertsitatea, Loramendi 4, 20500 Mondragon, Spain

Prof. Dr. Daniel Casellas
1. Eurecat, Centre Tecnològic de Catalunya, Manresa, Barcelona, Spain
2. Division of Mechanics of Solid Materials, Luleå University of Technology, Luleå, Sweden

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Message from the Guest Editors

Metal forming and forging and are used extensively for the industrial production of high-added-value components using different metal alloys.

The aim of this Special Issue is to collect outstanding papers about the above-mentioned processes that can help to solve and understand real industrial problems for better and more robust process design, process monitoring, and control.

Of special interest will be the contributions about the development of new material and the tribological/contact characterization methods ending in advanced numerical models that enable the simulation of complex industrial processes and their understanding.

Keywords

- Sheet metal forming: deep drawing and stamping, hot stamping and press hardening, gas or fluid media forming, shear forming, roll forming, and levelling
- Bulk metal forming, forging: cold and hot forging, rolling processes, and bulk sheet metal forming
- Material and tribological/contact characterization and modelling
- Microstructural evolution modelling
- Damagen failure and ductile fracture modelling, final properties prediction
- Model-based process control, analytical and empirical methods

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
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

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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Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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