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Manufacturing Processes Simulation Based on Atomistic Modelling

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editors

The goal of this Special Issue is the collection and presentation of state-of-the-art developments in the atomistic modelling of manufacturing processes. We seek research contributions related to atomistic/mesoscale/multiscale modelling of manufacturing and processes encompassing the following topics:

- Material removal processes;
- Solidification/annealing;
- Indentation;
- Laser ablation;
- Additive manufacturing;
- Material characterization;
- Ion beam processing.

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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