Special Issue

Optimization and Simulation in Alloy Cutting Processes (Second Volume)

Message from the Guest Editors

In today's manufacturing environment, including machining processes like turning, drilling, or milling, many industrial factories automate the production processes thus increasing the production efficiency and dimensional accuracy of machine parts. The development of simulation models allows for quick visualization of the chip formation process in a wide range of machining parameters, the course of tool wear and many others phenomenon difficult to observe in real-time. Machining simulation is generally used to optimize cutting processes to improve workpiece quality and determine the correct machining parameters. This Special Issue aims to present recent advances in the optimization of cutting processes for modern manufacturing engineering, especially CNC machining, application of modern tools for machining difficult-to-cut materials, modeling and computer simulation of machining, and analysis of physical phenomena existing in the decohesion zone of the machined material. It is my pleasure to invite you to submit original, high-quality research papers, short communications and state-of-the-art reviews for this Special Issue

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Deadline for manuscript submissions

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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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