

Special Issue

Impulse-Based Manufacturing Technologies

Message from the Guest Editor

In impulse-based manufacturing technologies, the energy required for forming, joining, or cutting components acts on the workpiece in a very short time and suddenly accelerates workpiece areas to very high velocities. The correspondingly high strain rates and inertia effects affect the behavior of many materials, resulting in technological benefits such as improved formability, reduced localizing and springback, extended possibilities to produce high-quality multi-material joints, and burr-free cutting. This Special Issue of *JMMP* will present current research findings which focus on exploiting the full potential of these processes by providing deep understanding of the technology and the material behavior and detailed knowledge about sophisticated process and equipment design. The range of considered processes covers electromagnetic forming, electrohydraulic forming, explosive forming, adiabatic cutting, forming by vaporizing foil actuators, and other impulse-based manufacturing technologies. For further information about the special issue, please visit mdpi.com/si/50604.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2021)



Journal of Manufacturing and Materials Processing

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 5.2



mdpi.com/si/50604

*Journal of Manufacturing and
Materials Processing*

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About the Journal

Message from the Editor-in-Chief

Journal of Manufacturing and Materials Processing (JMMP) (ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP*.

Editor-in-Chief

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