



Sustainable Metal Forming Materials and Technologies

Guest Editors:

Dr. Jure Krolo

Faculty of Electrical Engineering,
Mechanical Engineering and
Naval Architecture, University of
Split, 21000 Split, Croatia

Prof. Dr. Branimir Lela

Faculty of Electrical Engineering,
Mechanical Engineering and
Naval Architecture, University of
Split, 21000 Split, Croatia

Prof. Dr. Zoran Jurković

Faculty of Engineering, University
of Rijeka, 51000 Rijeka, Croatia

Deadline for manuscript
submissions:

20 January 2025

Message from the Guest Editors

In the last few years, there has been a demand for developing new technologies and materials aimed at shaping metals in ways that minimize environmental impact, reduce energy consumption, and enhance resource efficiency. By focusing on energy and material efficiency, waste reduction, and greenhouse gas emission control, the industry can progress towards more eco-friendly practices. Sustainable goals can be achieved through cold forming processes, high-strength alloys, innovative recycling and reuse, waste reduction, near-net shaping manufacturing, closed-loop systems, greenhouse gas emission reduction, the use of environmentally friendly materials, and advanced computational methods to optimize forming processes and minimize waste. The scope of this Special Issue includes, but is not limited to, the following areas:

Sustainable forming technologies; Solid and semi-solid metal recycling; Flexible and adaptive manufacturing; Sustainable manufacturing systems; Innovative forming materials; Energy-efficient additive manufacturing (3D printing); The green manufacturing process.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)