



## Advances in Material Forming

Guest Editors:

**Prof. Dr. Chetan P. Nikhare**

Advanced Manufacturing and  
Innovation Center, Mechanical  
Engineering Department, The  
Pennsylvania State University,  
Erie, PA 16510, USA

**Dr. William J. Embloom**

Mechanical Engineering,  
University of Louisiana at  
Lafayette, Lafayette, LA 70503,  
USA

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

We are inviting you to submit your research for this Special Issue of the *Journal of Manufacturing and Materials Processing* published by MDPI on “Advances in Material Forming”. Recent advances in materials such as advanced high-strength steel, higher grades of aluminum, and Inconel alloys is directing current research trends toward more efficient and cost-effective novel manufacturing. In addition, the automotive and aerospace industries are driving the need for lightweight parts. This is leading to new platforms for manufacturing processes i.e., non-traditional approaches to manufacture and form the parts. There are challenges to deforming high-strength materials using these non-traditional approaches which result in different stress states compared to conventional processes and characterization of these materials. Therefore, there is a significant need for experimentation, analysis, and simulation to formulate and evaluate theories for addressing these new processes and materials.

For further reading, please visit the website at  
[mdpi.com/journal/jmmp/special\\_issues/material\\_forming](https://mdpi.com/journal/jmmp/special_issues/material_forming).





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Steven Y. Liang**

George W. Woodruff School of  
Mechanical Engineering, Georgia  
Institute of Technology, Atlanta,  
GA 30332-0405, USA

## 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*.

## Author Benefits

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

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

**Journal Rank:** CiteScore - Q1 (*Mechanical Engineering*)

## Contact Us

---

*Journal of Manufacturing and  
Materials Processing* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/jmmp](http://mdpi.com/journal/jmmp)  
[jmmp@mdpi.com](mailto:jmmp@mdpi.com)  
[X@JMMP\\_MDPI](https://twitter.com/JMMP_MDPI)