Special Issue

Modernly Designed Materials and Their Processing

Message from the Guest Editors

Modern materials in mechanical engineering have significantly improved the performance of mechanical systems, allowing for more efficient and effective designs. These materials offer several advantages over traditional materials such as increased strength, durability, and corrosion resistance, as well as being lightweight. The development of these materials continues to push the boundaries of what is possible in mechanical engineering. The processing of these modern materials often involves advanced manufacturing techniques, such as additive manufacturing, advanced forming, advanced machining, and advanced casting processes. These techniques allow for precise control over the material properties and the manufacturing of complex geometries with high accuracy. The progress in technology and materials has enabled mechanical engineers to design and produce more efficient, reliable, and sustainable mechanical systems.

Guest Editors

Dr. Lubos Kascak

Department of Technology, Materials and Computer Supported Production, Faculty of Mechanical Engineering, Technical University of Košice, 04002 Košice, Slovakia

Prof. Dr. Emil Spišák

Department of Technologies, Materials and Computer Aided Production, Technical University of Kosice, 74 Mäsiarska, 04001 Kosice, Slovakia

Deadline for manuscript submissions

20 February 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/168257

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

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.

Editor-in-Chief

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

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)