

Special Issue

Surface Engineering Techniques in Advanced Manufacturing

Message from the Guest Editors

Dear colleagues, Surface engineering is pivotal in manufacturing, enhancing material performance and durability without altering their structure. Traditional techniques like coatings, anodizing, thermal spraying, laser modification, and chemical vapor deposition (CVD) are widely used to improve wear resistance, corrosion protection, reduce friction, and enhance aesthetics. These are crucial in industries such as aerospace, automotive, medical, and electronics where material reliability is paramount.

Recently, surface engineering has rapidly evolved with advancements in nanotechnology, additive manufacturing, and smart coatings offering multifunctional properties like self-healing and adaptability. Moreover, surface engineering is poised to become more sophisticated with digitization and AI, enabling precise, tailored treatments. Innovations could revolutionize applications in biomedical implants, electronics, and sustainable manufacturing, making surface engineering a key driver in next-gen manufacturing.

This Special Issue invites researchers to showcase recent developments and future trends in advanced surface engineering techniques.

Guest Editors

Dr. Saood Ali

School of Mechanical Engineering, Yeungnam University, 280 Daehak-Ro, Gyeongsan-si 38541, Republic of Korea

Prof. Dr. Kubilay Aslantaş

Department of Mechanical Engineering, Faculty of Technology, University of Afyon Kocatepe, Afyonkarahisar, Türkiye

Deadline for manuscript submissions

31 August 2026



Machines

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.7



mdpi.com/si/219653

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

[mdpi.com/journal/
machines](https://mdpi.com/journal/machines)





Machines

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.7



[mdpi.com/journal/
machines](https://mdpi.com/journal/machines)



About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso
CISE–Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).