

## Special Issue

# Tribology Today—Advances, Applications and Innovations

### Message from the Guest Editor

Tribology Today aims to showcase cutting-edge research, technological advancements, and practical applications in the field of tribology. Tribology Today seeks to cover a broad spectrum of topics, including the following:

- Smart Tribology: Integration of AI, machine learning, and sensors in tribology for predictive maintenance and real-time monitoring.
- Automotive Tribology: Innovations in reducing friction and wear in engines, transmissions, and braking systems.
- Industrial Applications: Tribological solutions for manufacturing, heavy machinery, and robotics.
- Energy Sector: Tribology in renewable energy technologies, oil and gas, and power generation.
- Biomedical Engineering: Wear and lubrication in medical devices, implants, and prosthetics.
- Consumer Electronics: Friction, wear, and durability in electronic devices and materials.
- Advanced Manufacturing: The role of tribology in additive manufacturing, surface engineering, and nanotechnology.
- Sustainable Tribology: Environmentally friendly lubricants, materials, and processes.
- Aerospace Applications: Tribological challenges and solutions in aviation and space exploration.

### Guest Editor

Dr. Ali Usman

School of Engineering, Cardiff University, Cardiff, UK

### Deadline for manuscript submissions

closed (31 July 2025)



## Machines

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## 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.

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### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).