Special Issue

Experimental Advances in Eco-Friendly Friction Materials

Message from the Guest Editors

Environmental concerns and governmental regulations are driving the demand for eco-friendly friction materials across various sectors, including automotive, aerospace, and railway industries. Despite significant advancements, the widespread industrial adoption of sustainable friction materials remains limited. This Special Issue aims to highlight the latest experimental research and technological innovations in the development and application of sustainable friction materials. We invite original research articles and case studies aligned with the following topics:

- Development of sustainable friction materials;
- Green technologies in the production of friction materials:
- Advances in material characterization techniques;
- Case studies of eco-friendly solutions in industrial applications (e.g., automotive, aerospace, and railway);
- Emission of airborne particles by friction materials;
- Evaluation of Noise, Vibration, and Harshness (NVH) performance of braking systems with sustainable materials in vehicular and railway applications.

We look forward to receiving your submissions for this Special Issue on "Experimental Advances in Eco-Friendly Friction Materials".

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2025)



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Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. Lubricants invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in Lubricants.

Editor-in-Chief

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